



APPLICATION FOR FINANCIAL ASSISTANCE
Revised 7/93

CB801

IMPORTANT: Applicant should consult the "Instructions for Completion of Project Application" for assistance in the proper completion of this form.

SUBDIVISION: Metropolitan Sewer District of Greater Cincinnati CODE# 061-00061

DISTRICT NUMBER: 2 COUNTY: Hamilton DATE 10/01/93

CONTACT: Joseph P. Neihaus PHONE # (513) 557-7102

(THE PROJECT CONTACT PERSON SHOULD BE THE INDIVIDUAL WHO WILL BE AVAILABLE ON A DAY-TO-DAY BASIS DURING THE APPLICATION REVIEW AND SELECTION PROCESS AND WHO CAN BEST ANSWER OR COORDINATE THE RESPONSE TO QUESTIONS)

PROJECT NAME: TRENCHLESS TECHNOLOGY SEWER REHABILITATION

SUBDIVISION TYPE (Check Only 1)	FUNDING TYPE REQUESTED (Check All Requested & Enter Amount)	PROJECT TYPE (Check Largest Component)
<input checked="" type="checkbox"/> 1. County	<input type="checkbox"/> 1. Grant \$ _____	<input type="checkbox"/> 1. Road
<input type="checkbox"/> 2. City	<input checked="" type="checkbox"/> 2. Loan \$ <u>2,791,000.00</u>	<input type="checkbox"/> 2. Bridge/Culvert
<input type="checkbox"/> 3. Township	<input type="checkbox"/> 3. Loan Assistance \$ _____	<input type="checkbox"/> 3. Water Supply
<input type="checkbox"/> 4. Village	MBE SET-ASIDE OFFERED	<input checked="" type="checkbox"/> 4. Wastewater
<input type="checkbox"/> 5. Water/Sanitary District (Section 6119 O.R.C.)	Construction \$ _____	<input type="checkbox"/> 5. Solid Waste
	Procurement \$ _____	<input type="checkbox"/> 6. Stormwater

TOTAL PROJECT COST: \$3,300,000.00 FUNDING REQUESTED: \$2,791,000.00

DISTRICT RECOMMENDATION
To be completed by the District Committee ONLY

GRANT: \$ _____ LOAN ASSISTANCE: \$ _____
LOAN: \$ 2,791,000.00 % 3 TERM: 20 yrs. (Attach Loan Supplement)

(Check Only 1)

☒ State Capital Improvement Program
☐ Local Transportation Improvements Program
☐ Small Government Program

DISTRICT MBE SET-ASIDE
Construction \$ _____
Procurement \$ _____

FOR OPWC USE ONLY

PROJECT NUMBER: C _____/C _____
Local Participation _____ %
OPWC Participation _____ %
Project Release Date: ____/____/____
OPWC Approval: _____

APPROVED FUNDING: \$ _____
Loan Interest Rate: _____
Loan Term: _____ years
Maturity Date: _____
Date Approved: ____/____/____

1.0 PROJECT FINANCIAL INFORMATION

1.1 PROJECT ESTIMATED COSTS:

(Round to Nearest Dollar)

- a.) Project Engineering Costs:
1. Preliminary Engineering \$ N/A .00
 2. Final Design \$ N/A .00
 3. Other Engineer Services * \$ N/A .00
 - Supervision \$ N/A .00
 - Miscellaneous \$ N/A .00
- b.) Acquisition Expenses:
1. Land \$ N/A .00
 2. Right-of-Way \$ N/A .00
- c.) Construction Costs: \$3,000.000 .00
- d.) Equipment Purchased Directly: _____
- e.) Other Direct Expenses: \$ N/A .00
- f.) Contingencies: \$ 300.000 .00
- g.) TOTAL ESTIMATED COSTS: \$3,300.000 .00

MBE	Force Account
\$	\$
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

1.2 PROJECT FINANCIAL RESOURCES:

(Round to Nearest Dollar and Percent)

		%
a.) Local In-Kind Contributions	\$ _____ .00	_____
b.) Local Public Revenues	\$ <u>509.000</u> .00	<u>15</u>
c.) Local Private Revenues	\$ <u>N/A</u> .00	_____
d.) Other Public Revenues		_____
1. ODOT PID# _____	\$ <u>N/A</u> .00	_____
2. EPA/OWDA	\$ <u>N/A</u> .00	_____
3. OTHER	\$ <u>N/A</u> .00	_____
SUB TOTAL LOCAL RESOURCES:	<u>\$509.000</u> .00	<u>15</u>
e.) OPWC Funds		
1. Grant	\$ _____ 0.00	_____
2. Loan	\$ <u>2,791.000</u> .00	<u>85</u>
3. Loan Assistance	\$ _____ 0.00	_____
SUB TOTAL OPWC RESOURCES:	<u>\$2,791.000</u> .00	<u>85</u>
f.) TOTAL FINANCIAL RESOURCES:	<u>\$3,300.000</u> .00	<u>100%</u>

*Other Engineer's Services must be outlined in detail on the required certified engineer's estimate.

1.3 AVAILABILITY OF LOCAL FUNDS:

Attach a summary from the Chief Financial Officer listed in section 5.2 listing all local share funds budgeted for the project and the date they are anticipated to be available.

2.0 PROJECT INFORMATION

IMPORTANT: If project is multi-jurisdictional, information must be consolidated in this section.

2.1 PROJECT NAME: Trenchless Technology Sewer Rehabilitation

2.2 BRIEF PROJECT DESCRIPTION - (Sections a through d):

a.) **SPECIFIC LOCATION:** The Metropolitan Sewer District of Greater Cincinnati serves 800,000 residents in a 400 square mile area, and includes 33 municipalities and unincorporated areas within Hamilton County. The District maintains 2,700 miles of sanitary and combined sewers, 6 major wastewater treatment plants, 23 extended aeration treatment plants, 120 package lift stations, and 8 major pumping stations.

PROJECT ZIP CODE: 45238

b.) **PROJECT COMPONENTS:**

Rehabilitation of existing sanitary and combined sewers using trenchless technology.

c.) **PHYSICAL DIMENSIONS/CHARACTERISTICS:**

Diameter of existing sewers: 8", 12", 15", 18", 22", 24", 27" and 36".

d.) **DESIGN SERVICE CAPACITY:**

IMPORTANT: Detail shall be included regarding current service capacity vs proposed service level.

If road or bridge project, include ADT. If water or wastewater project, include both current residential rates based on monthly usage of 7,756 gallons per household.

Attach current rate ordinance.

Based on 7,756 gallons per month. The current residential monthly rate is \$21.95.

2.3 **USEFUL LIFE/COST ESTIMATE:** Project Useful Life: 40 Years.

Attach Registered Professional Engineer's statement, with original seal and signature certifying the project's useful life indicated above and estimated cost.

3.0 REPAIR/REPLACEMENT or NEW/EXPANSION:

TOTAL PORTION OF PROJECT REPAIR/REPLACEMENT	\$3,300,000	100 %
State Funds Requested for Repair and Replacement	\$2,791,000	85 %

TOTAL PORTION OF PROJECT NEW/EXPANSION	\$ _____	____ %
State Funds Requested for New and Expansion	\$ _____	____ %

(SCIP Project Grant Funding for New and Expansion cannot exceed 50% of the total Project Costs.)

4.0 PROJECT SCHEDULE:*

	BEGIN DATE	END DATE
4.1 Engineering/Design:	07 / 01 / 93	09 / 30 / 93
4.2 Bid Advertisement:	04 / 01 / 94	04 / 30 / 94
4.3 Construction:	07 / 01 / 94	12 / 31 / 94

* Failure to meet project schedule may result in termination of agreement for approved projects. Modification of dates must be approved in writing by the Commission once the Project Agreement has been executed. Dates should assume project agreement approval/release on July 1st. of the Program Year applied for.

5.0 APPLICANT INFORMATION:

5.1 CHIEF EXECUTIVE

OFFICER

Mr. David J. Krings

TITLE

Hamilton County Administrator

STREET

County Administration Building, Room 603

Cincinnati, Ohio 45202

CITY/ZIP

PHONE

(513) 632 - 8225

FAX

(513) 632 - 5797

5.2 CHIEF FINANCIAL

OFFICER

Mr. Raymond J. Fern

TITLE

Director of Budget and Research

STREET

County Administration Building, Room 607

Cincinnati, Ohio 45202

CITY/ZIP

PHONE

(513) 632 - 8888

FAX

(513) 632 - 5797

5.3 PROJECT MANAGER

TITLE

Mr. Thomas J. Quinn

STREET

Director, MSDGC

1600 Gest Street

CITY/ZIP

Cincinnati, Ohio 45204

PHONE

(513) 244 - 5121

FAX

(513) 244 - 1399

6.0 ATTACHMENTS/COMPLETENESS REVIEW:

Check each section below, confirming that all required information is included in this application.

- X A certified copy of the legislation by the governing body of the applicant authorizing a designated official to submit this application and execute contracts. (Attach)
- X A summary from the applicant's Chief Financial Officer listing all local share funds budgeted for the project and the date they are anticipated to be available. (Attach)
- X A registered professional engineer's estimate of projects useful life and cost estimate, as required in 164-1-14 and 164-1-16 of the Ohio Administrative Code. Estimates shall contain engineer's original seal and signature. (Attach)
- NA A copy of the cooperation agreement(s) if this project involves more than one subdivision or district. (Attach)
- X Capital Improvements Report: (Required by 164 O.R.C. on standard form)
 A: Attached.
X B: Report/Update Filed with the Commission within the last twelve months.
- NA Floodplain Management Permit. Required if project is in 100 year floodplain. See Instructions.
- X Supporting Documentation: Materials such as additional project description, photographs, economic impact (temporary and/or full time jobs likely to be created as a result of the project), and other information to assist your district committee in ranking your project.

7.0 APPLICANT CERTIFICATION:

The undersigned certifies that: (1) he/she is legally authorized to request and accept financial assistance from the Ohio Public Works Commission; (2) that to the best of his/her knowledge and belief, all representations that are part of this application are true and correct; (3) that all official documents and commitments of the applicant that are part of this application have been duly authorized by the governing body of the applicant; and, (4) should the requested financial assistance be provided, that in the execution of this project, the applicant will comply with all assurances required by Ohio Law, including those involving minority business utilization, Buy Ohio, and prevailing wages.

IMPORTANT: Applicant certifies that physical construction on the project as defined in the application has NOT begun, and will not begin until a Project Agreement and a Notice To Proceed for this project has been executed with the Ohio Public Works Commission. Action to the contrary will result in termination of the agreement and withdrawal of Ohio Public Works Commission funding of the project.

Mr. David J. Krings, Hamilton County Administrator
Certifying Representative (Type or Print Name and Title)

David J. Krings September 30, 1993
Signature/Date Signed peb

OHIO PUBLIC WORKS COMMISSION LOAN SUPPLEMENT

This supplement is required for all loan applicants.

Attach the following to the "Ohio Public Works Commission Application for Assistance"

- ☒ Copy of Legislation authorizing current rates.
- ☒ A statement from applicant's Chief Fiscal Officer certifying method of repayment.
- ☒ A copy of previous year Financial Statement.

Complete the following:

NUMBER OF CUSTOMERS	Water	Sewer
Residential		198,000
Commerical		21,000
Industrial		990
Other		

SYSTEM EXPENDITURES	Water	Sewer	1993 Budget See Attached
Operation Expenses		\$64,284,000	
Debt Service Payments		22,578,000	
Surplus			
General Fund Transfer			
Other - Equipment		1,910,000	

RATES	Water	Sewer
Current		See Attached Resolution
Last Increase (year and amount)		1993 - 20%
Planned Increase		1995 - 15%

RATINGS	Moody's	S&P	General Obligation	Audited Revenues 1992
	A1	AA-	N/A	\$80,000,000

DEBT OUTSTANDING (do not include new OPWC loan)	Total Debt	Annual Payment	Last Payment Date
Other OPWC loans			
Revenue Bonds	\$238,700,000	\$18,453,000	Various
GO Bonds			
Other	11,052,000	1,973,000	Various

See audited 1992 financial statements pages 11 and 13, official statement for 1993 bond issue page 11, and 1994 budget projection.

City of Cincinnati



Interdepartment
Correspondence Sheet

9/30/93

Date _____

To Joseph P. Niehaus, P.E., Superintendent, Planning and Program
From G. Stephen Minges, P.E., Superintendent, Wastewater Collection *GSM*
Copies to Dir. File, Div. Files, Reading File, CIP File #91-16
Subject CIP 91-16 SANITARY SEWER NO. 3359 TRENCHLESS TECHNOLOGY

The attached Table shows 152 locations identified by the Wastewater Collection Division for internal sewer pipe rehabilitation. This project is scheduled to be funded under Capital Improvement Project No. 91-16, Sanitary Sewer No. 3359 Trenchless Technology. The engineers estimated construction cost for this project is \$3,000,000.00, it is also estimated that this technology will extend the useful life of the sewer by forty years.

G. Stephen Minges

G. Stephen Minges, P.E. #E-43087

GSM:bkw

attachment



1993-B CIP LINING CONTRACT

JOB NUMBER	STREET NAME	AREA	LENGTH (FEET)	*NOMINAL DIAMETER (INCHES)	TAPS
1	ALLAIRE AVE.	COLERAIN TWP.	229	8	2
2	ANDOVER RD.	GREEN HILLS	109	8	3
3	ASHBY ST	GREEN HILLS	303	8	5
4	ASHBY ST.	GREEN HILLS	302	8	4
5	BACHMAN ST.	GREENHILLS	170	8	1
6	BACHMAN ST.	GREENHILLS	204	8	5
7	BELKAMP PL.	GREENHILLS	170	8	14
8	BERKLEY CR.N.	SILVERTON	373	8	10
9	BROMPTON ST.	GREEN HILLS	140	8	6
10	BROMPTON ST.	GREEN HILLS	95	8	3
11	BROMPTON ST.	GREEN HILLS	300	8	10
12	BURLEY CIR.	GREEN HILLS	303	8	4
13	BURLEY CIR.	GREEN HILLS	150	8	4
14	BURWOOD AVE.	NORWOOD	276	8	18
15	CATALPA AVE.	N. COLLEGE HILL	389	8	18
16	CEDAR ALLEY	CARTHAGE	392	8	13
17	COURTLAND AVE.	NORWOOD	261	8	6
18	COURTLAND AVE.	NORWOOD	132	8	7
19	CRESTVIEW AVE.	PLEASANT RDG.	348	8	14
20	DAMMON RD.	GREENHILLS	175	8	6
21	DAYSPRING TER.	GREENHILLS	215	8	5
22	DEBBIE LN.	BOND HILL	236	8	4
23	DELWARE	DEER PARK	250	8	10
24	DEWITT ST	GREEN HILLS	106	8	1
25	DEWITT ST.	GREEN HILLS	90	8	4
26	DEWITT ST.	GREEN HILLS	126	8	3
27	DEWITT ST.	GREEN HILLS	98	8	4
28	EDWOOD DR.	COLLEGE HILL	391	8	15
29	EMERSON AVE.	N COLLEGE HILL	310	8	14
30	FARRAGUT RD.	GREENHILLS	160	8	14
31	FELDMAN	NORWOOD	283	8	25
32	GAMBIER AVE.	GREENHILLS	153	8	9
33	GERMANIA AVE.	FAIRFAX	256	8	4
34	GERMANIA AVE.	FAIRFAX	413	8	22
35	GLENWAY	WESTERN HILLS	377	8	11
36	GLOBE AVE	NORWOOD	238	8	21
37	GLOBE AVE	NORWOOD	235	8	9
38	HAMILTON AVE.	MT. HEALTHY	397	8	18
39	HAMILTON AVE.	MT. HEALTHY	256	8	10
40	HAMILTON AVE.	MT. HEALTHY	300	8	13
41	HARMAR CT.	GREEN TWP.	200	8	3
42	HARRISON AVE	GREEN TWP	143	8	3
43	HELEN ST.	ELMWOOD PLACE	255	8	16
44	INGRAM RD.	GREEN HILLS	280	8	4
45	INGRAM RD.	GREEN HILLS	238	8	4

46	INMAN ST.	GREENHILLS	244	8	4
47	IRELAND ST.	GREENHILLS	295	8	5
48	IRELAND ST.	GREEN HILLS	233	8	8
49	IRELAND ST.	GREEN HILLS	197	8	7
50	IROQUOIS DR.	LOVELAND	134	8	2
51	JULEP LN.	GREENHILLS	260	8	9
52	LaBOITEAUX AVE.	N. COLLEGE HILL	266	8	7
53	LANGDON FARM	PLEASANT RIDGE	130	8	3
54	MARIEMONT AVE.	MARIEMONT	221	8	8
55	MARIEMONT AVE.	MARIEMONT	270	8	7
56	MARVIN AVE.	MADIERA	201	8	9
57	MARVIN AVE.	MADIERA	202	8	10
58	ORCHARD LN.	PLEASANT RIDGE	187	8	5
59	ORCHARD LN.	PLEASANT RIDGE	188	8	5
60	SCOTTWOOD AVE.	ROSELAWN	154	8	8
61	SHELDRICH CT.	GREEN TWP.	168	8	3
62	SIEBERN AVE.	SILVERTON	370	8	17
63	SIEBERN AVE.	SILVERTON	290	8	13
64	SIMPSON ST.	FAIRFAX	166	8	6
65	STEWART PARK DR	NORWOOD	247.5	8	14
66	STEWART PARK DR	NORWOOD	248.4	8	17
67	WAYSIDE AVE.	Mt.WASHINGTON	147	8	6
68	WAYSIDE AVE.	Mt.WASHINGTON	200	8	6
69	WOODLAWN	NORWOOD	179	8	15
70	EDITH AVE.	MADISONVILLE	189	10	6
71	EDITH AVE.	MADISONVILLE	208	10	11
72	OAK ST.	SILVERTON	315	10	9
73	PARROTT	DEER PARK	362	10	2
74	ALPINE	BLUE ASH	279.1	12	11
75	APLINE	BLUE ASH	130.8	12	0
76	BANBURY ST.	SPRINGFIELD TWP.	276	12	11
77	BANBURY ST.	SPRINGFIELD TWP.	166	12	9
78	BANBURY ST.	SPRINGFIELD TWP.	293	12	10
79	CALHOUN	CLIFTON	111	12	8
80	CANNAS DR.	DELHI TWP.	163	12	0
81	CANNAS DR.	DELHI TWP.	126	12	2
82	CATALPA AVE.	N.COLLEGE HILL	323	12	3
83	CATALPA ST.	N.COLLEGE HILL	318	12	9
84	CATALPA ST.	N.COLLEGE HILL	290	12	1
85	CATHERINE AVE	LOCKLAND	184	12	5
86	CENTRAL AVE.	DOWNTOWN	24	12	0
87	COLUMBIA PKY.	EAST END	128	12	5
88	DEERWAY AVE.	KENWOOD	259	12	10
89	DON JOY DR.	BLUE ASH	301	12	7
90	E. OGDEN PLACE	DOWNTOWN	179	12	3
91	EBENEZER RD.	GREEN TWP.	272	12	15
92	ERNEST AVE	FAIRMOUNT	125	12	10
93	FAWNVISTA LA.	SHARONVILLE	151	12	2
94	FAWNVISTA LA.	SHARONVILLE	150	12	4
95	FINCH ALLEY	WALNUT HILLS	170	12	6
96	GLENDORA AVE.	CORRYVILLE	143	12	13

97	GREENLAND PLACE	ROSELAWN	349.5	12	17
98	GREENLAND PLACE	ROSELAWN	312.5	12	7
99	HIGHLAND AVE.	AVONDALE	101	12	5
100	HIGHLAND AVE.	AVONDALE	100	12	3
101	JOANNA PL.	PRICE HILL	266	12	10
102	JULMAR DR.	GREEN-TWP.	107	12	0
103	MENTOLA AVE.	DELHI TWP.	178	12	0
104	MIAMI HILLS DR	MADIERA	307	12	9
105	MONARDI CT	COLUMBIA TWP	68	12	0
106	PROVIDENCE ST	WEST END	45	12	6
107	PROVIDENCE ST	WEST END	28	12	2
108	RED CEDAR DR	COLLEGE HILL	212	12	2
109	SAMOTH RIDGE	DELHI	200	12	7
110	SECTION RD	SPRINGFIELD TWP	241	12	8
111	SHARON RD	FOREST PARK	520	12	0
112	SHARON RD	FOREST PARK	100	12	1
113	SHARON RD	FOREST PARK	130	12	2
114	SMILEY AVE	SPRINGDALE	120	12	2
115	SMILEY AVE	SPRINGDALE	297	12	12
116	SMILEY AVE	SPRINGDALE	248	12	1
117	STATHEM AVE	WEST WOOD	304	12	18
118	THREE RIVERS PKWY	CLEVES	249	12	5
119	VICTORIA AVE	HYDE PARK	245	12	6
120	VICTORIA AVE	HYDE PARK	250	12	5
121	VINE ST	DOWNTOWN	169	12	11
122	WESTERN HILLS	GREEN TWP	145	12	1
123	WESTERN HILLS	GREEN TWP	127	12	9
124	BANK	ST BERNARD	244	15	16
125	PARVIS ALLEY	DOWNTOWN	49	15	7
126	RIDGECLIFF	PLEASANT RIDGE	191	15	2
127	RIDGECLIFF DRIVE	PLEASANT RIDGE	163	15	6
128	STEWART	SILVERTON	131	15	2
129	STEWART	SILVERTON	211	15	1
130	STEWART RD	SILVERTON	218	15	0
131	STEWART RD	SILVERTON	197	15	2
132	VICTORIA AVE	HYDE PARK	251	15	1
133	WILBUD DR	PRICE HILL	141	15	4
134	WOODLAWN AVE	PRICE HILL	20	15	0
135	FERN SIDE PL.	EVANSTON	68	18	0
136	GRANADA ST	MADISONVILLE	139	18	1
137	JULMAR DR	GREEN TWP	200	18	4
138	MARRYAT PL	PLEASANT RIDGE	153	18	3
139	OAK ST	WALNUT HILLS	129	18	12
140	PADDOCK RD	BOND HILL	11	18	5
141	STETTINUS AVE	HYDE PARK	152	18	12
142	TREMONT ST	FAIRMOUNT	119	18	6
143	TREMONT ST	FAIRMOUNT	118	18	8
144	UC(NIPPERT STADIUM)	CLIFTON	123	18	2
145	WARSAW AVE	PRICE HILL	143	18	16
146	BEECH AVE	PRICE HILL	184	22	4
147	BEECH AVE	PRICE HILL	29	22	0

148	DRAKEWOOD AVE	HYDE PARK	123	24	11
149	FAIRMOUNT AVE	FAIRMOUNT	155	24	5
150	BEECH AVE	PRICE HILL	141	27	3
151	BEECH AVE	PRICE HILL	64	27	2
152	GILSEY AVE	PRICE HILL	233	36	2

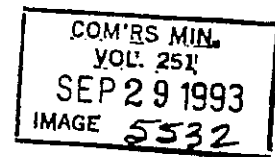
Engineer's Estimate: \$3,000,000.00

* See PART I Sec. 4.1 and PART V Sec. 1.4 of the Special Provisions and Specifications for Rehabilitation of Existing Sanitary and Combined Sewers by Lining Process

1.3 Availability of Local Funds

The attached resolution has authorized and appropriated sufficient existing funds which are available immediately for local funds.

Alan P. Landis September 30, 1993
Alan P. Landis Date
MSD Comptroller



The Board of County Commissioners of Hamilton County, Ohio met in regular session on the 29th day of September, 1993, with the following members present:

Mr. Chabot

Mr. Dowlin

Mr. Guckenberger

RESOLUTION

AUTHORIZING THE COUNTY ADMINISTRATOR TO APPLY
FOR ISSUE 2 FINANCIAL ASSISTANCE FUNDS FOR
THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI

WHEREAS, Issue 2 Financial Assistance Funds may be available from the Ohio Public Works Commission for sewer repair and improvement for the Metropolitan Sewer District, and

WHEREAS, it may be advantageous for the County to apply to District No. 2 for Issue 2 Financial Assistance Funds, and

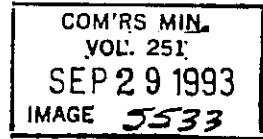
WHEREAS, a single Resolution by this Board will suffice to authorize the Hamilton County Administrator to make any application and execute any contract, deemed economically advantageous by the County.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners of Hamilton County, Ohio, that the Hamilton County Administrator be and he hereby is authorized to make application to the Ohio Public Works Commission District No. 2 for Issue 2 Financial Assistance Funds, and

BE IT FURTHER RESOLVED, that this Board of County Commissioners hereby finds and determines that all formal actions relative to the adoption of this Resolution were taken in an open meeting of the Board of County Commissioners and that all deliberations of this Board of County Commissioners and of its committees, if any, which resulted in formal action were taken in meetings open to the public, in full compliance with applicable legal requirements, including Section 121.22 of the Ohio Revised Code.

ADOPTED at a regularly adjourned meeting of the Board of County Commissioners of Hamilton County, Ohio, this 29th day of September, 1993.

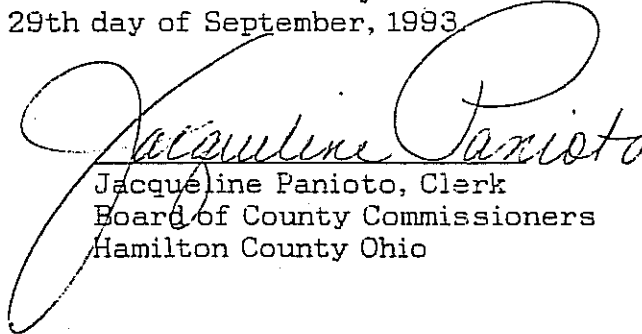
Mr. Chabot AYE Mr. Dowlin AYE Mr. Guckenberger AYE



CERTIFICATE OF CLERK

IT IS HEREBY CERTIFIED that the foregoing is a true and correct transcript of resolutions adopted by the Board of County Commissioners in session the 29th day of September, 1993.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Official Seal of the Office of the Board of County Commissioners of Hamilton County, Ohio, this 29th day of September, 1993.


Jacqueline Panioto, Clerk
Board of County Commissioners
Hamilton County Ohio

The Board of County Commissioners of Hamilton County, Ohio, met in regular session on the 1st day of September, 1993, with the following members present:

Mr. Chabot

Mr. Guckenberger

RESOLUTION

1993 CAPITAL IMPROVEMENT PROGRAM
APPROPRIATION

WHEREAS, annually this Board approves the Capital Improvement Program for the Metropolitan Sewer District of Greater Cincinnati, and

WHEREAS, it has been determined sufficient unappropriated surplus funds are available for use by the Metropolitan Sewer District to temporarily finance construction costs prior to the issuance of long term revenue bonds.

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners of Hamilton County, Ohio, that the sum of three million, eight hundred sixty-four thousand, nine hundred dollars (\$3,864,900.00) currently existing in unappropriated surplus funds available for use by the Metropolitan Sewer District in Capital Improvement Fund 704 maintained by the City of Cincinnati is hereby appropriated to pay costs incurred in connection with the following project:

S.S. No. 3359 Trenchless Technology \$3,864,900.00
CIP 91-16

BE IT FURTHER RESOLVED by the Board of County Commissioners of Hamilton County, Ohio as follows:

Section 1 The County may be expected to pay and/or incur costs with respect to the Project ("Prior Capital Expenditures") on or after the date of this resolution and prior to the issuance of the obligations (the "Obligations") which will finance the Project.

Section 2 The Board of County Commissioners hereby approves the use of the Obligations in the maximum principal amount of \$3,864,900.00 to finance the costs of the Project and declares its intent that any Prior Capital Expenditures made by the County will be made in anticipation of the issuance of such Obligations to reimburse said Prior Capital Expenditures. This declaration is made pursuant to Treas. Reg. Section 1.103-18 or any successor thereto.

Section 3 The County Administrator, the Director of the Metropolitan Sewer District, the Director of Finance of the City of Cincinnati, the County Auditor and/or Star Bank, N.A., as Trustee, each as applicable, are hereby authorized and directed to reimburse, not later than one year after the later of (i) the date of the expenditure or (ii) the date the item was placed in service, only those Prior Capital Expenditures made with respect to assets having a reasonably expected economic life of at least one year, and, in addition, eligible preliminary expenditures paid and incurred in connection with the Project from the Revenue Fund, Replacement and Improvement Account and/or the Surplus Account.

Section 4 The Board of County Commissioners finds and determines that, consistent with the County's budgetary and financial circumstances, it does not

have funds currently available and does not expect to have funds available in the future that may be allocated on a long term basis, other than the proceeds of the Obligations, to finance the Prior Capital Expenditures.

Section 5 The Board of County Commissioners hereby directs the County Administrator, the Director of the Metropolitan Sewer District, the Director of Finance of the City of Cincinnati, the County Auditor and/or Star Bank, N.A., as Trustee, each as applicable, to take the following action at the time the Prior Capital Expenditures are reimbursed from proceeds of the Obligations only if said reimbursement relieves the proceeds used for reimbursement from any restrictions imposed by both legal documents under which the Obligations were issued and applicable state law: (1) evidence the reimbursement on the books and records maintained with respect to the Obligations, and (2) identify either the actual prior expenditure to be reimbursed or, in the case of reimbursement of a fund or account, the fund or account from which the expenditure was paid.

Section 6 The books, records and proceedings of the County with respect to this resolution shall be made reasonably available by the County, for inspection by the general public at the County's administrative office every business day during normal business hours commencing no later than 30 days after the passage of this resolution. Said books, records and proceedings of the County with respect to this resolution will continue to be reasonably available to the general public until the date of issuance of the Obligations.

BE IT FURTHER RESOLVED, that this Board of County Commissioners hereby finds and determines that all formal actions relative to the adoption of this Resolution were taken in an open meeting of the Board of County Commissioners and that all deliberations of this Board of County Commissioners and of its committees, if any, which resulted in formal action were taken in meetings open to the public, in full compliance with applicable legal requirements, including Section 121.22 of the Ohio Revised Code.

ADOPTED at a regularly adjourned meeting of the Board of County Commissioners of Hamilton County, Ohio, this 1st day of September, 1993.

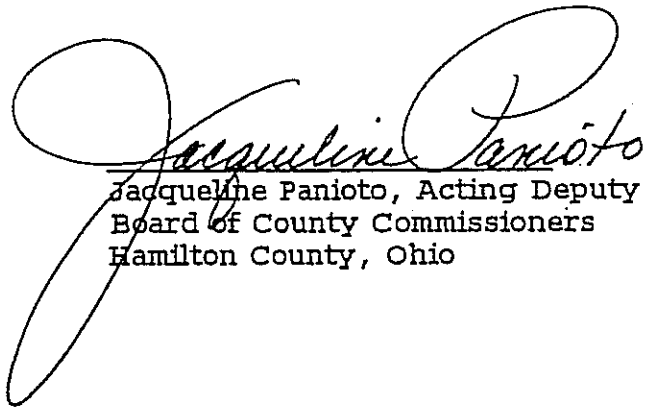
Mr. Chabot AYE Mr. Dowlin ABSENT Mr. Guckenberger AYE

S.S. PROJECT NO. 3359
TRENCHLESS TECHNOLOGY
THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI

CERTIFICATE OF CLERK

To the Honorable Board of County Commissioners of Hamilton County

The undersigned, Jacqueline Panioto, the duly appointed, qualified and acting Deputy Clerk of the Board of County Commissioners of Hamilton County, Ohio, certifies that no appeal has been taken to Probate Court of Hamilton County, Ohio, from the Resolution to Proceed with Improvement of Sanitary Sewer Project No. 3359, Trenchless Technology, Metropolitan Sewer District of Greater Cincinnati, Hamilton County, Ohio, duly passed by this Board on the 1st day of September, 1993.


Jacqueline Panioto, Acting Deputy Clerk
Board of County Commissioners
Hamilton County, Ohio

METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI
LOAN SUPPLEMENT
STATEMENT OF METHOD OF REPAYMENT

Loan repayments are provided for in the customer user fees charged by the Metropolitan Sewer District (MSD). The Operating Budget approved by the Board of County Commissioners authorizes the payment. MSD does a rate study every other year to insure that the necessary revenues are being generated to sustain operations, pay debt service, and comply with borrowing covenants.

Alan P. Landis

September 30, 1993

Alan P. Landis
MSD Comptroller

Date



The Board of County Commissioners of Hamilton County, Ohio met in regular session on the 7th day of April 1993, with the following members present: Mr. Chabot
Mr. Dowlin
Mr. Guckenberger

6
Resolution fixing rates for sewerage service charges, surcharges, and industrial pretreatment charges for the use of sanitary and combined sewers and for sewage treatment in the Metropolitan Sewer District of Greater Cincinnati.

WHEREAS, the Board of County Commissioners of Hamilton County has since 1924, established sewer districts in accordance with Chapter 6117 of the Ohio Revised Code and constructed and otherwise acquired sanitary trunk sewers throughout the County, and as a result today owns, operates, and maintains a system of sanitary trunk sewers; and

WHEREAS, the Board of County Commissioners did, on February 1, 1955, consolidate all of the previously established sewer districts into a single district known as Hamilton County Sewer District No. 1; and

WHEREAS, the Board of County Commissioners did, on December 4, 1963, complete the consolidation of previously established sewer districts and expand the boundaries of Hamilton County Sewer District No. 1 to be coincident with the boundaries of the County; and

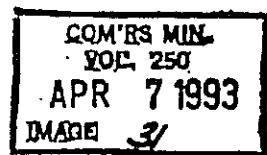
WHEREAS, the Board of County Commissioners did, on April 10, 1968, change the name of the County Sewer district to "THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI"; and

WHEREAS, Section 6117.02 of the Ohio Revised Code provides that the Board of County Commissioners may establish a sewer service charge which shall be adequate to provide the cost of the management, maintenance, and operation of the sewers and the cost of sewage treatment and disposal, said sewer service charge to be paid by every person, firm, or corporation whose premises are served by a connection to a sanitary sewer; and

WHEREAS, the Board of County Commissioners did, on December 4, 1968, adopt a Resolution establishing a rate structure for sewerage service charges and surcharges, for sewer service in The Metropolitan Sewer District of Greater Cincinnati, effective January 1, 1969, which has been subsequently amended from time to time; and

WHEREAS, the Director of The Metropolitan Sewer District of Greater Cincinnati and of the Department of Sewers did, on March 29, 1993, submit a recommendation to revise the rate structure for sewerage service charges, surcharges, and industrial pretreatment charges; and

WHEREAS, the Board of County Commissioners did on March 31, 1993, conduct a public hearing on said rate structure;



NOW, THEREFORE, BE IT RESOLVED by the Board of County Commissioners of Hamilton County, Ohio:

SECTION 1. From and after April 14, 1993, every person, firm or corporation in The Metropolitan Sewer District of Greater Cincinnati, whose premises are served by a connection to a sanitary or combined sewer which discharges sewage, industrial wastes, water, or other liquids, either directly or indirectly into a County sanitary or combined sewer, shall be charged for the use of the sewers and for the treatment of sewage discharged therein at the following rates:

MINIMUM CHARGE

The sewerage service charge shall consist of a minimum charge and a commodity charge.

The minimum charge shall be based on the size of the water meter used to serve the premises, or the size of the premises served, as determined by the number of units therein, whichever results in the larger minimum charge.

The size of the premises shall be determined by the total number of residential and/or commercial and industrial units that comprise the premises.

Such minimum charge shall include the charge for the first 500 cubic feet of water used in the case of monthly bills; and the first 900 cubic feet of water used, in the case of quarterly bills.

The minimum charge rates shall be as follows:

<u>Meter Size</u> inches	<u>Number of</u> <u>Family Units</u>	<u>Monthly</u> <u>Bills</u> \$	<u>Quarterly</u> <u>Bills</u> \$
5/8	1	14.00	28.75
3/4	2 or 3	16.75	37.05
1	4 or 5	21.50	51.00
1-1/2	6 thru 12	33.50	87.00
2	13 thru 20	46.00	123.00
3	21 thru 50	114.00	319.00
4	51 thru 115	189.00	528.00
6	116 thru 200	370.00	1,042.00
8	Over 250	550.00	1,556.00
10		739.00	2,079.00
12		860.00	2,401.00

For trailer parks the number of family units shall be 75 percent (75%) of the available occupancy.

For hotels and motels the number of family units shall be 50 percent (50%) of the available occupancy.

For commercial establishments each two sets, or part thereof, of sanitary facilities shall be counted as one family unit. A set of sanitary facilities shall be any grouping of water using plumbing fixtures whose total instant demand is not greater than the total instant demand of five, one-half inch, water faucets. Where commercial or manufacturing facilities require more water than required for sanitary



purposes, the minimum charge shall be not less than the minimum charge for a meter one size smaller than the branch serving the premises.

COMMODITY CHARGE

The Commodity Charge shall be based on the quantity of water used on the premises served as same is measured by a water meter or meters therein used, which meters must be acceptable to the City of Cincinnati.

The Commodity Charge shall be as follows:

Monthly Bills

For each 100 cubic feet consumed per month in excess of 500 cubic feet but not in excess of 5,000 cubic feet - \$1.43 per 100 cubic feet.

For each 100 cubic feet consumed per month in excess of 5,000 cubic feet - \$1.16 per 100 cubic feet.

Quarterly Bills

For each 100 cubic feet consumed per quarter in excess of 900 cubic feet but not in excess of 15,000 cubic feet - \$1.43 per 100 cubic feet.

For each 100 cubic feet consumed per quarter in excess of 15,000 cubic feet - \$1.16 per 100 cubic feet.

For residential water service accounts (one and two family residences), a quarterly minimum and commodity charge shall be based upon water used during a winter quarterly billing period; said winter period being the quarterly billing period most closely corresponding to usage during the months of October through April. Said charges shall be payable with each bill rendered throughout the year.

SECTION 2. For customers having high strength waste discharge, the surcharge, which is in addition to the metered use charge, shall be computed on the following basis:

SURCHARGE:

Suspended Solids (SS)	\$0.000796 per 100 cubic feet for each mg/l of SS strength above 300 mg/l.
Biochemical Oxygen Demand (BOD)	\$0.001359 per 100 cubic feet for each mg/l of BOD strength above 240 mg/l.
Nitrogenous Oxygen Demand (NOD)	\$0.001188 per 100 cubic feet for each mg/l of Total Kjeldahl Nitrogen (TKN) strength above 25 mg/l.

Provided, however, that to the extent the strength of a pollutant is less than 80 percent (80%) of the corresponding value for normal strength sewage, a credit shall be allowed as an offset against surcharge otherwise due. The credit shall be calculated by multiplying the herein above specified surcharge rate for the pollutant in question times the difference between actual pollutant concentration in mg/l and 80 percent (80%) of the corresponding value for normal sewage. No credit shall be allowed in excess of surcharge otherwise due.

SECTION 3. All users required to apply for and obtain a wastewater discharge permit or which are subject to federal pretreatment standards, as specified in the MSD Rules and Regulations, shall be subject to the payment of a pretreatment charge(s), as determined by the Director. Said pretreatment



charge(s) shall be sufficient to recover, in whole or in part, the costs for the MSD Pretreatment Program including investigations, record keeping, administration, and monitoring of industrial waste discharges to the system. Each industrial user shall pay a pretreatment charge(s) as follows:

INDUSTRIAL PRETREATMENT CHARGE:

Annual Fee - \$800 per annum

Monitoring Charge - \$5,500 maximum per monitoring event

SECTION 4. Any user which discharges any toxic pollutants which cause an increase in the cost of managing effluent or sludge from the District's treatment system shall pay such increased costs.

SECTION 5. That the sewerage service charges, surcharges, and industrial pretreatment charges shall be applied in accordance with the provisions of the "Rules and Regulations Governing the Maintenance, Operation, and Use of Sanitary and Combined Sewers in The Metropolitan Sewer District of Greater Cincinnati" as adopted by the Board of County Commissioners and as may be modified from time to time.

SECTION 6. All users of the sewage system shall be notified at least annually as to:

- (a) The rate schedule in effect.
- (b) That part of the total charges attributable to user charges for sewage treatment service.

SECTION 7. That the sewerage service charges and surcharges stipulated herein shall be billed on the water bill and shall be payable to the Cincinnati Water Works at the same time as the water bills, or they may be billed and collected by such governmental agencies as are designated by and as are under agreement with the Board of County Commissioners. Charges not paid within the time prescribed shall be certified, together with a penalty of 10 percent (10%) to the County Auditor and collected in accordance with Section 6117.02 of the Ohio Revised Code.

SECTION 8. That industrial pretreatment charges and charges to users for special equipment, materials, and services shall be payable in the same manner as sewerage service charges, or by means of a separate billing.

SECTION 9. Quarterly sewerage service charge and surcharge bills mailed May 14 through June 13, and June 14 through July 13, 1993, shall be prorated at the existing and new rates; those mailed July 14, 1993, and thereafter shall be calculated entirely at the new rates. Monthly sewerage service charge and surcharge bills mailed May 14, 1993, and thereafter shall be calculated at the new rates.

SECTION 10. The Resolution adopted by the Board of County Commissioners on April 24, 1991, fixing rates and charges for sewer service in The Metropolitan Sewer District of Greater Cincinnati is hereby repealed.

SECTION 11. That this Board of County Commissioners hereby finds and determines that all formal actions relative to the adoption of this Resolution were taken in an open meeting of the Board of County Commissioners and that all deliberations of this Board of County Commissioners and of its

committees, if any, which resulted in formal action, were taken in meetings open to the public, in full compliance with applicable legal requirements, including Section 121.22 of the Ohio Revised Code.

ADOPTED at a regularly adjourned meeting of the Board of County Commissioners of Hamilton County, Ohio, this 7th day of April 1993.

Mr. Chabot, AYE

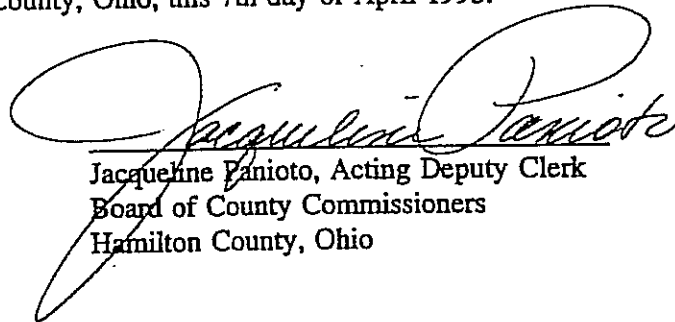
Mr. Dowlin, AYE

Mr. Guckenberger, AYE

CERTIFICATE OF CLERK

IT IS HEREBY CERTIFIED that the foregoing is a true and correct transcript of a Resolution adopted by the Board of County Commissioners in session the 7th day of April 1993.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Official Seal of the Office of County Commissioners of Hamilton County, Ohio, this 7th day of April 1993.



Jacqueline Panioto, Acting Deputy Clerk
Board of County Commissioners
Hamilton County, Ohio

REPORT

AUDIT OF FINANCIAL STATEMENTS

for

THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI

for the years ended December 31, 1992 and 1991

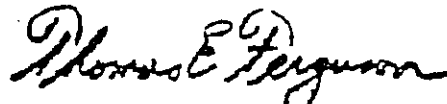
THOMAS E. FERGUSON, CFE

AUDITOR OF STATE

P.O. BOX 1140 • Columbus, Ohio 43266-0040 • [614] 466-4514

Board of County Commissioners
Hamilton County
Cincinnati, Ohio 45202

We have reviewed the independent auditor's reports of the Metropolitan Sewer District of Greater Cincinnati prepared by Foxx & Company, and the working papers related thereto for the fiscal year ended December 31, 1992. Based upon this review, we have accepted these reports in lieu of the audits required by Section 117.11, Revised Code. We did not audit the accompanying financial statements and accordingly we are unable to express, and do not express, an opinion on them.

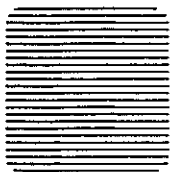


THOMAS E. FERGUSON, CFE
AUDITOR OF STATE

July 19, 1993

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Foxx & Company
Certified Public Accountants

The Honorable Board of County Commissioners
County of Hamilton, Ohio

INDEPENDENT AUDITORS' REPORT

We have audited the balance sheets of the Metropolitan Sewer District (District) of Greater Cincinnati, Cincinnati, Ohio, as of December 31, 1992 and 1991, and the related statements of revenues and expenses, changes in equity, and cash flows for the years then ended. These financial statements are the responsibility of the District's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with generally accepted auditing standards. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, the financial statements referred to in the first paragraph present fairly, in all material respects, the financial position of the Metropolitan Sewer District of Greater Cincinnati as of December 31, 1992 and 1991, and the results of its operations and its cash flows for the years then ended in conformity with generally accepted accounting principles.

Foxx & Company

April 23, 1993
Cincinnati, Ohio

THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI CINCINNATI, OHIO

BALANCE SHEETS

December 31, 1992 and 1991

ASSETS	<u>1992</u>	<u>1991</u>
Current assets:		
Cash and cash equivalents	\$ 9,420,000	\$ 8,900,000
Grants receivable	398,000	685,000
Accounts receivable (net of allowance for doubtful accounts: 1992 - \$1,130,000 1991 - \$1,130,000): (Note 3)		
Sewerage charges and surcharges unbilled	6,549,000	9,749,000
Sewerage charges and surcharges billed	5,754,000	6,041,000
Other	305,000	574,000
Settlements receivable	25,000	49,000
Inventory of supplies, materials and fuel	<u>214,000</u>	<u>361,000</u>
Total current assets	<u>22,665,000</u>	<u>26,359,000</u>
Restricted assets:		
Cash and cash equivalents held by City of Cincinnati:		
Construction account	11,299,000	15,283,000
Amount to be transferred to surplus account	11,718,000	12,960,000
Investments held by Trustee:		
Reserve account	18,749,000	17,930,000
Replacement and improvement account	5,000,000	5,000,000
Bond account	1,509,000	1,705,000
Surplus account	<u>16,534,000</u>	<u>31,002,000</u>
Total restricted assets	<u>64,809,000</u>	<u>83,880,000</u>
Property, plant and equipment:		
Land	2,521,000	2,111,000
Buildings and structures	354,007,000	343,320,000
Processing systems	191,668,000	186,182,000
Office and service equipment	13,573,000	12,841,000
Construction in progress	<u>57,255,000</u>	<u>35,855,000</u>
	619,024,000	580,309,000
Less: Accumulated depreciation	<u>(177,332,000)</u>	<u>(160,041,000)</u>
Total property, plant and equipment, net	<u>441,692,000</u>	<u>420,268,000</u>
Other assets:		
Unamortized financing costs	4,098,000	4,413,000
Settlements receivable	1,316,000	1,341,000
Other	<u>3,868,000</u>	<u>4,070,000</u>
Total other assets	<u>9,282,000</u>	<u>9,824,000</u>
Total assets	<u>\$ 538,448,000</u>	<u>\$ 540,331,000</u>

The notes to the financial statements are an integral part of the financial statements.

(continued)

**THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI
CINCINNATI, OHIO**

BALANCE SHEETS

(continued)

December 31, 1992 and 1991

LIABILITIES AND EQUITY	<u>1992</u>	<u>1991</u>
Current liabilities:		
Current portion of long-term debt	\$ 7,187,000	\$ 5,363,000
Accounts payable and accrued liabilities	<u>4,738,000</u>	<u>3,347,000</u>
Total current liabilities	<u>11,925,000</u>	<u>8,710,000</u>
Payable from restricted assets:		
Construction account	3,420,000	3,922,000
Bond account	<u>1,023,000</u>	<u>1,044,000</u>
Total payable from restricted assets	<u>4,443,000</u>	<u>4,966,000</u>
Long-term debt	<u>185,022,000</u>	<u>192,398,000</u>
Total liabilities	<u>201,390,000</u>	<u>206,074,000</u>
Equity:		
Contributions in aid of construction	183,855,000	186,872,000
Retained earnings	<u>153,203,000</u>	<u>147,385,000</u>
Total fund equity	<u>337,058,000</u>	<u>334,257,000</u>
Total liabilities and equity	<u>\$538,448,000</u>	<u>\$540,331,000</u>

The notes to the financial statements are an integral part of the financial statements.

THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI
CINCINNATI, OHIO

STATEMENTS OF REVENUES AND EXPENSES

for the years ended December 31, 1992 and 1991

	<u>1992</u>	<u>1991</u>
Operating revenues:		
Sewerage service charges	\$66,669,000	\$67,264,000
Sewerage surcharges	9,908,000	9,894,000
Other revenues	<u>3,152,000</u>	<u>2,905,000</u>
Total operating revenues (Note 3)	<u>79,729,000</u>	<u>80,063,000</u>
Operating expenses:		
Personnel services	31,118,000	30,278,000
Utilities, fuel and supplies	11,318,000	10,446,000
Depreciation and amortization	18,110,000	15,654,000
Purchased services	11,479,000	10,172,000
Other expenses	<u>2,605,000</u>	<u>2,507,000</u>
Total operating expenses	<u>74,630,000</u>	<u>69,057,000</u>
Income from operations	<u>5,099,000</u>	<u>11,006,000</u>
Other income (expense):		
Interest income	2,876,000	3,769,000
Sundry	296,000	124,000
Loss on disposal of property, plant and equipment	(1,240,000)	(2,152,000)
Interest expense	<u>(8,173,000)</u>	<u>(7,574,000)</u>
Total other income (expense)	<u>(6,241,000)</u>	<u>(5,833,000)</u>
Income (loss) before extraordinary item	(1,142,000)	5,173,000
Extraordinary item (Note 6)	<u>-</u>	<u>(6,957,000)</u>
Net loss	<u><u>\$(1,142,000)</u></u>	<u><u>\$(1,784,000)</u></u>

The notes to the financial statements are an integral part of the financial statements.

THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI
CINCINNATI, OHIO

STATEMENTS OF CHANGES IN EQUITY

for the years ended December 31, 1992 and 1991

	Contributions in Aid of <u>Construction</u>	Retained <u>Earnings</u>	<u>Total</u>
Balances, January 1, 1991	\$189,403,000	\$142,308,000	\$331,711,000
Net loss	-	(1,784,000)	(1,784,000)
Additions to contributions in aid of construction	4,330,000	-	4,330,000
Amortization of contributions in aid of construction	<u>(6,861,000)</u>	<u>6,861,000</u>	<u>-</u>
Balances, December 31, 1991	186,872,000	147,385,000	334,257,000
Net loss	-	(1,142,000)	(1,142,000)
Additions to contributions in aid of construction	3,943,000	-	3,943,000
Amortization of contributions in aid of construction	<u>(6,960,000)</u>	<u>6,960,000</u>	<u>-</u>
Balances, December 31, 1992	<u>\$183,855,000</u>	<u>\$153,203,000</u>	<u>\$337,058,000</u>

The notes to the financial statements are an integral part of the financial statements.

THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI CINCINNATI, OHIO

STATEMENTS OF CASH FLOWS

for the years ended December 31, 1992 and 1991

INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS

	<u>1992</u>	<u>1991</u>
Cash flows from operating activities:		
Cash received from customers	\$ 80,064,000	\$ 75,345,000
Cash payments to suppliers for goods and services	(24,731,000)	(23,903,000)
Cash payments for personnel costs	(30,610,000)	(30,070,000)
Other operating revenues	<u>3,421,000</u>	<u>3,116,000</u>
Net cash provided by operating activities	<u>28,144,000</u>	<u>24,488,000</u>
Cash flows from capital and related financing activities:		
Sale of revenue bonds	-	89,375,000
Defeasance of revenue bonds	-	(51,096,000)
Principal and interest payments - long-term debt	(18,609,000)	(18,961,000)
Acquisition and construction of capital assets	(36,977,000)	(36,408,000)
Grants and contributions	3,943,000	3,784,000
Proceeds from sale of equipment	<u>49,000</u>	<u>533,000</u>
Net cash used for capital and related financing activities	<u>(51,594,000)</u>	<u>(12,773,000)</u>
Cash flows from investing activities:		
Proceeds from sale (purchase) of government securities	10,086,000	(18,635,000)
Interest on investments	<u>4,899,000</u>	<u>6,532,000</u>
Net cash provided (used) from investing activities	<u>14,985,000</u>	<u>(12,103,000)</u>
Net decrease in cash and cash equivalents	(8,465,000)	(388,000)
Cash and cash equivalents at January 1	<u>60,385,000</u>	<u>60,773,000</u>
Cash and cash equivalents at December 31	<u>\$ 51,920,000</u>	<u>\$ 60,385,000</u>
RECONCILIATION OF OPERATING INCOME TO NET CASH PROVIDED BY OPERATING ACTIVITIES		
Operating income	<u>\$ 5,099,000</u>	<u>\$ 11,006,000</u>
Adjustments to reconcile operating income to net cash provided by operating activities:		
Depreciation and amortization	18,110,000	15,654,000
Allowance for doubtful accounts	-	155,000
Other	-	(37,000)
Change in assets and liabilities:		
Decrease (increase) in receivables	3,758,000	(1,558,000)
Decrease in inventory	147,000	201,000
Increase in accrued compensation	361,000	207,000
Increase (decrease) in operating accounts payable	671,000	(1,137,000)
Increase in prepaid expenses	<u>(2,000)</u>	<u>(3,000)</u>
Total adjustments	<u>23,045,000</u>	<u>13,482,000</u>
Net cash provided by operating activities	<u>\$ 28,144,000</u>	<u>\$ 24,488,000</u>

The notes to the financial statements are an integral part of the financial statements.

**THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI
CINCINNATI, OHIO**

NOTES TO FINANCIAL STATEMENTS

for the years ended December 31, 1992 and 1991

1. Summary of Significant Accounting Policies

A. Organization

The Metropolitan Sewer District of Greater Cincinnati (MSD) was established pursuant to an agreement dated May 1, 1968, between the Board of Commissioners of Hamilton County and the City of Cincinnati. Under a contract with the City of Cincinnati, the Board designated the City as its agent for the maintenance and operation of MSD. The annual budget, prepared on the cash basis of accounting, is approved by the Board and administered by the City. Budgetary control is exercised at the activity level.

B. Basis of Accounting

The accompanying financial statements were prepared on the accrual basis of accounting, whereby revenues and expenses are recognized in the period earned or incurred.

C. Investments

Investments are recorded at the lower of cost or market as of the balance sheet date, on an aggregate basis.

D. Inventory

Supplies, materials, and fuel are stated at the lower of cost or market on a first-in, first-out (FIFO) basis.

E. Property, Plant and Equipment

Property, plant and equipment are stated at historical cost for assets acquired after MSD's inception in 1968. Assets acquired prior to 1968 and not identifiable with specific historical costs are not included in the property, plant and equipment balance. Assets acquired by MSD through contributions, such as contributions from land developers and Federal and state grants, are capitalized and recorded in the plant records at the contributors' reported

THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI CINCINNATI, OHIO

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for the years ended December 31, 1992 and 1991

cost. Construction costs include interest capitalized on debt during the period of construction and the cost of in-force labor.

Depreciation expense is computed on the straight-line method over the estimated useful lives of the respective assets. The estimated lives are as follows:

Buildings and structures	40 years
Processing systems	25 years
Office and service equipment	5 to 15 years

Depreciation expense on fixed assets acquired through contributions is reported as an offset against contributions in aid of construction in fund equity. Any gain or loss arising from the disposal of fixed assets has been credited or charged to income.

F. Unamortized Financing Costs

The unamortized financing costs include bond discount and consulting and attorney fees incurred in connection with the revenue bond obligations. These amounts are being amortized on the interest method over the lives of the revenue bonds.

G. Statement of Cash Flows

For purposes of the Statement of Cash Flows, all highly liquid investments (including restricted assets) with a maturity of three months or less when purchased are considered to be cash equivalents.

H. Pension Plans

Pension costs reflect a percentage of employees' gross pay, as defined by the terms of MSD's pension plans. MSD's policy is to fund pension costs accrued.

THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI CINCINNATI, OHIO

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I. Insurance

MSD participates in Ohio Workers' Compensation and Ohio State Unemployment programs.

2. Cash and Investments

Monies held by MSD, other than bond funds held by trustees, are invested on MSD's behalf by the City of Cincinnati (the City). Pursuant to the Cincinnati Municipal Code, allowable investments specifically include: (a) bonds and other obligations of the City; (b) bonds, notes or other obligations on securities of or guaranteed by the United States or any Federal government agency; (c) bonds and other obligations of the State of Ohio; (d) Bonds of any municipality of the State of Ohio; (e) certificates of deposit of banks in accordance with Section 135.18 of the Ohio Revised Code; and (f) repurchase agreements with banks of the City in accordance with Section 135.14 of the Ohio Revised Code.

Cash and investments consist of the following at December 31, 1992 and 1991:

	<u>December 31, 1992</u>		<u>December 31, 1991</u>	
	<u>Cash and Cash Equivalents</u>	<u>Investments</u>	<u>Cash and Cash Equivalents</u>	<u>Investments</u>
Deposits:				
Amounts held by City of Cincinnati	\$32,437,000	\$ -	\$37,143,000	\$ -
Investments held by Trustees:				
U.S. Government securities	-	22,309,000	-	32,395,000
Trust funds liquid asset treasury portfolio	<u>19,483,000</u>	<u>-</u>	<u>23,242,000</u>	<u>-</u>
Total cash and investments	<u>\$51,920,000</u>	<u>\$22,309,000</u>	<u>\$60,385,000</u>	<u>\$32,395,000</u>

The amounts held by the City are collateralized as part of the City's cash and investment balances. Bank balances of the City are covered by Federal depository

**THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI
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NOTES TO FINANCIAL STATEMENTS

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insurance or collateral held by the Cincinnati Branch of the Federal Reserve Bank of Cleveland or the City's agent in the City's name.

Investments held by trustees are uninsured and unregistered and are held by the financial institution's trust department in MSD's name.

3. Accounts Receivable

Accounts receivable as of December 31, 1992 and 1991, consisted of the following:

	<u>December 31, 1992</u>	<u>December 31, 1991</u>
Sewerage charges and surcharges-unbilled	\$ 6,549,000	\$ 9,749,000
Sewerage charges and surcharges-billed	6,884,000	7,171,000
Other	305,000	574,000
Less allowable for doubtful accounts	<u>(1,130,000)</u>	<u>(1,130,000)</u>
Total	<u>\$12,608,000</u>	<u>\$16,364,000</u>

The method of calculating the December 31, 1992 sewerage and surcharges-unbilled was changed to reflect a more accurate estimate. This change had the effect of reducing the December 31, 1992, accounts receivable amount for sewerage charges and surcharges-unbilled by \$3,087,000 from the amount which would have been recognized had prior year estimating calculations been used. The reduction to the year end receivable reduced 1992 operating revenues from \$82,816,000 to \$79,729,000 and reduced net income from \$1,945,000 to a net loss of \$1,142,000.

4. Restrictions on Assets

Land acquired for MSD's use is titled to either the City of Cincinnati or Hamilton County. The cost of this land has been recorded on the books of MSD since it has the full benefits of the land as an economical resource.

In August 1985, the Federal District Court entered a consent order in an action with MSD and others (see Note 10). In complying with the consent order, MSD is required to maintain amounts on deposit in an environmental security account. Expenditures from this account must be approved by the U.S. Environmental Protection Agency. The balance of this account, which is included in other assets, was \$773,000 and \$743,000 at December 31, 1992 and 1991, respectively.

The Trust Agreement for the 1991, 1986, and 1985 Revenue Bonds (see Note 5) requires the establishment of certain trust accounts including a Bond Account, Bond

THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI CINCINNATI, OHIO

NOTES TO FINANCIAL STATEMENTS

for the years ended December 31, 1992 and 1991

Reserve Account, Replacement and Improvement Account, and a Surplus Account to be held by the Trustee. The Bond Account will be used to accumulate periodic principal and interest payments. The Bond Reserve Account will be funded in an amount equal to the highest annual future debt service requirement. The Replacement and Improvement Account will be maintained with a balance of \$5,000,000. The Surplus Account is available to be used for any other Sewer System purpose. The Trust Agreement also requires the creation of a Construction Account to be held by the City to pay for project costs.

5. Long-Term Debt

As of December 31, 1992 and 1991, long-term debt consisted of the following:

(In Thousands)

	<u>Principal Issue</u>	<u>Interest Rate</u>	<u>Maturity Date</u>	<u>1992 Principal Outstanding</u>	<u>1991 Principal Outstanding</u>
Ohio Water Authority Contracts	\$41,830	2.00-7.49	2019	\$ 12,406	\$ 14,104
Series A Revenue Bonds					
1985	63,800	6.00-9.50	2005	7,570	9,730
1986	85,020	4.90-7.50	2011	81,180	81,915
1991	90,950	4.80-6.70	2013	89,340	90,270
Loveland Sewer District	200	5.75	2000	75	80
Ohio Water and Sewer Rotary Commission				<u>1,638</u>	<u>1,662</u>
				192,209	197,761
Less current maturities				<u>7,187</u>	<u>5,363</u>
Long-term debt				<u>\$185,022</u>	<u>\$192,398</u>

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Principal payments on long-term debt for the subsequent five years and thereafter are as follows:

1993	\$ 7,187,000
1994	5,699,000
1995	5,996,000
1996	6,320,000
1997	6,486,000
Thereafter	<u>160,521,000</u>
	<u>\$192,209,000</u>

Effective February 26, 1991, MSD issued \$90,950,000 County of Hamilton, Ohio, 1991 Series A Sewer System Improvement and Refunding Revenue Bonds dated January 15, 1991. The proceeds from the 1991 Bonds were used to permanently fund certain previous capital expenditures, provide funds for new projects, defease a portion of the 1985 Series A bond issue (See Note 6), fund the new bond reserve requirement, and pay the cost of issuance. The 1991 bonds are special obligations of the District payable solely from the net revenues of the District and are issued on a parity with the 1985 and 1986 Series A bonds, secured equally and ratably under the Trust Agreement.

Effective May 29, 1986, MSD issued \$85,020,000 County of Hamilton, Ohio Sewer System Revenue Bonds, 1986 Series A (1986 Bonds). The proceeds from the 1986 Bonds were used to fund certain construction projects, establish various trust funds required by the Bond Indenture, and to pay certain fees and expenses incurred with the issuance of the bonds.

The 1985 and 1986 bonds are secured by a Trust Agreement dated October 1, 1985, as supplemented by a First Supplemental Trust Agreement dated April 1, 1986, between the Trustee, the County, and for certain limited purposes, the City of Cincinnati. The 1985 and the 1986 bonds are on a parity and are equally and ratably secured by a pledge of the Net Revenues (as defined by the debt agreements) of MSD. The 1985 Bonds mature at amounts ranging from \$2,330,000 in 1993 to \$2,725,000 in 1995 (after refunding by the 1991 Series A bonds). The 1986 Bonds mature at amounts ranging from \$775,000 in 1993 to \$13,000,000 in 2011. The 1991 Bonds mature at amounts ranging from \$985,000 in 1993 to \$15,335,000 in 2013. The 1991, 1986, and 1985 Bonds may be redeemed prior to their maturities in accordance

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with provisions of the bond resolutions. The redemption prices for the bonds include declining premiums from 2 percent and 3 percent of principal, respectively.

Under the terms of the amended revenue bond trust indenture, MSD has agreed to certain covenants, among other things, to restrict additional borrowing, fix and maintain rates sufficient to meet debt service requirements, and maintain specified fund balances under trust agreements.

All contracts between the Ohio Water Development Authority (OWDA) and the Metropolitan Sewer District require MSD to prescribe and charge such rates for sewer usage which are sufficient (after expenses of operation and maintenance) to pay principal and interest on OWDA contracts. The principal is repayable in equal semi-annual installments to maturity.

Advances from Ohio Water and Sewer Rotary Commission represent tap-in fees and acreage assessments to be forwarded to the Commission upon collection from customers. Such advances do not bear interest unless they are determined to be in default.

For the years 1992 and 1991, interest costs incurred totaled \$13,214,000 and \$13,393,000, respectively, of which \$5,041,000 and \$5,819,000 were capitalized as part of the cost of MSD's additions to property, plant, and equipment.

The Revenue Serial bond issues as discussed above contain covenants which require the District to maintain a level of debt service coverage. The following calculation reflects the District's debt service coverage.

	<u>1992</u>	<u>1991</u>
Revenues:		
Total operating revenues (See Note 3)	\$79,729,000	\$80,063,000
Interest income	2,876,000	3,769,000
Capitalized interest income	<u>2,023,000</u>	<u>2,895,000</u>
Total pledged revenues	84,628,000	86,727,000
Total operating and maintenance expenses less depreciation and amortization	<u>56,520,000</u>	<u>53,403,000</u>
Net income available for debt service	<u>\$28,108,000 (a)</u>	<u>\$33,324,000 (a)</u>
Principal and interest requirements on revenue bonds	<u>\$16,358,000 (b)</u>	<u>\$15,826,000 (b)</u>
Principal and interest requirements on all obligations	<u>\$18,555,000 (c)</u>	<u>\$18,201,000 (c)</u>
Debt service coverage:		
Revenue bonds (a)÷(b)	<u>1.72</u>	<u>2.11</u>
All obligations (a)÷(c)	<u>1.51</u>	<u>1.83</u>
Basic coverage required on bonds	<u>1.25</u>	<u>1.25</u>

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for the years ended December 31, 1992 and 1991

6. Extraordinary Item - Defeased Debt

Defeasements During 1991. On February 26, 1991, the District issued \$90,950,000 1991 Series A Sewer System Improvement and Refunding Revenue bonds dated January 15, 1991, with an average interest rate of 6.54 percent. A portion of the proceeds from the bond issue was used to purchase U.S. Government Securities to advance refund \$45,230,000 of outstanding 1985 Series A bonds with an average interest rate of 9.39 percent. Those securities were deposited in an irrevocable trust with an escrow agent to provide for all future debt service payments on the 1985 Series A Bonds maturing after December 1, 1995. As a result, the 1985 Series A Bonds maturing after December 31, 1995, are considered to be defeased and the liability for those bonds has been removed from the balance sheet. At December 31, 1992 and 1991, the amount of defeased debt outstanding amounted to \$45,230,000.

Although the advance refunding resulted in the recognition of an accounting loss of \$6,957,000 for the year ended December 31, 1991, which is reflected on the Statement of Revenues and Expenses as an extraordinary item, the District in effect reduced its aggregate debt service payments by \$11.7 million and obtained an economic gain (difference between the present values of the old and new debt service payments) of \$3.3 million.

Other Defeasements. In prior years, MSD defeased various general obligation serial bonds and revenue serial bonds through refinancing and operations. Separate irrevocable trust funds were established and funded to fully service the defeased debt until the debt is called or matures. For financial reporting purposes, the debt has been considered defeased and is not included in the financial statements. At December 31, 1992, and 1991 the amount of prior year's defeased debt outstanding amounted to \$12,060,000 and \$15,053,000, respectively.

7. Contributions in Aid of Construction

Contributions have been received from the OWDA and the United States Government in accordance with agreements transacted between MSD and these two entities. The City of Cincinnati and Hamilton County provided working capital to MSD upon formation, and those capital contributions are included in the amounts

THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI CINCINNATI, OHIO

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below. Other contributions have been received in connection with the expansion of sewerage services.

As of December 31, 1992 and 1991, net contributions in aid of construction consisted of the following:

	<u>1992</u>	<u>1991</u>
United States Government Grants	\$ 129,722,000	\$ 129,328,000
City of Cincinnati	68,300,000	68,300,000
Ohio Water Development Authority Grants	43,585,000	43,585,000
Customers	52,224,000	48,674,000
Hamilton County	<u>1,738,000</u>	<u>1,738,000</u>
	295,569,000	291,625,000
Less accumulated amortization of contributions in aid of construction	<u>(111,714,000)</u>	<u>(104,753,000)</u>
	<u>\$ 183,855,000</u>	<u>\$ 186,872,000</u>

8. Pension and Retirement

All MSD full-time employees participate in either the Retirement System of the City of Cincinnati (City System) or the Public Employees' Retirement System administered by the State of Ohio (State PERS). Each plan is a cost-sharing, multiple-employer, public employee retirement system. The payroll for employees covered by the plans for the year ended December 31, 1992, was \$23,678,000 and \$867,000 for the City System and State PERS, respectively. MSD's total payroll was \$24,578,000. The payroll for employees covered by the plans for the year ended December 31, 1991, was \$22,612,000 and \$848,000 for the City System and State PERS, respectively. MSD's total payroll for 1991 was \$23,574,000.

Income sources for each of the pension systems include both employee and employer contributions as well as income earned on investments. Employer contributions to the pension funds are current and fully met as required by law. Annual contributions

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to all pension systems include a provision for past service costs to properly fund pension and other benefits payable on account for creditable service.

The following table lists the employer and employee contribution rates and amounts paid by MSD for each retirement system for the year ended December 31, 1992

(In Thousands)				
	<u>Employer</u>		<u>Employee</u>	
	<u>Percent</u>	<u>Amount</u>	<u>Percent</u>	<u>Amount</u>
City of Cincinnati Retirement System	16.75%	\$3,959*	7.0%	\$1,657
Public Employees Retirement System	13.55%	118**	8.5%	74

* Employer amount includes health care costs which were included in the calculation of the pension benefit obligation.

** A portion of the PERS employer amount is used to fund a health care program which is not part of pension benefit obligation calculations.

The "pension benefit obligation" (PBO) is a standardized disclosure measure of the present value of pension benefits, adjusted for the effects of projected salary increases and step-rate benefits estimated to be payable in the future as a result of the employee service to date. The measure, which is the actuarial present value of credited projected benefits, is intended to help users assess each system's funding status on a going-concern basis, progress made in accumulating sufficient assets to pay benefits when due, and make comparisons among and assess retirement systems and employers. The measure is independent of the actuarial funding method used to determine contributions to the retirement system. The systems do not make separate measurements of assets and pension benefit obligation for individual employers.

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Listed below, for each system, is the pension benefit obligation for each system as a whole, net assets available for benefits, and the unfunded pension benefit obligation. These were determined through actuarial evaluations performed as of December 31, 1992, for the City System and December 31, 1991, for the PERS, (latest information available).

	(In Thousands)		
	<u>Pension Benefit Obligation (PBO)</u>	<u>Net Assets Available</u>	<u>Unfunded PBO</u>
City of Cincinnati Retirement System	\$ 1,109,333	\$ 1,037,351	\$ 71,982
Public Employees Retirement System	\$19,801,100	\$18,501,200	\$1,299,900

City of Cincinnati Retirement System. The service retirement allowance vests after five years of creditable service. Medical care benefits vest after fifteen years of creditable service or after reaching age sixty with five years of creditable service. Any member in service may retire upon attaining age sixty, regardless of length of membership service if he was enrolled prior to January 1, 1969, or with at least five years of membership service if enrollment occurred at January 1, 1969, or later, or upon completing five years of creditable service before age sixty members may retire with a retirement allowance commencing at age sixty, provided, however, at the time of election of the deferred annuity, there is no loan outstanding against his contributions.

The annual retirement allowance consists of an annuity provided by the number equal in value to contributions with interest at the time of retirement and a pension, which together with annuity, produces a total annual retirement allowance equal to 2 percent of the average highest compensation multiplied by the number of years of membership service. The System also provides death and disability benefits. These benefit provisions and all other requirements are established by the Cincinnati Municipal Code.

Each member contributes at a rate of 7 percent of his salary until his retirement. MSD makes annual contributions based on a percentage of the salaries of all

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members which is determined actuarially at each year end for the next year. The contribution rate for 1992 was 16.75 percent consisting of 6.61 percent for the normal contribution and 10.14 percent for the accrued liability contribution.

The City System has 6,320 active contributing participants of which 734 are MSD employees. For 1992 MSD's contribution was 13.8 percent of the total employer contribution.

The following significant actuarial assumptions used to compute the pension benefit obligation are the same as those used to compute actuarially determined contribution requirements.

1. Investment Return: 8.25 percent per annum, compounded annually.
2. Mortality: a. Non-disabled - 1971 Group Annuity Mortality Table.
b. Disabled - 1960 City of Cincinnati Experience Table.
3. Salary Scale: 5.5 percent per annum plus provision for an additional 9 percent increase in final average salary due to final lump sum salary payment.
4. Rate of Termination: 1979 City of Cincinnati Experience Table.
5. Rate of Disability: 1979 City of Cincinnati Experience Table.
6. Asset Valuation: Book Value.
7. Assumed Retirement Age: 62.
8. Medical Benefits: Current premium costs with projected increases of 7 percent per annum.

The "entry age normal with frozen initial liability" is the funding method used by the actuary in computing the employer contribution rate and established actuarial liability

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of the system. The unfunded actuarial liability at December 31, 1992, was \$96,865,000. The period of financing this unfunded liability is six years.

Trend information gives an indication of the progress made in accumulating sufficient assets to pay benefits when due. Ten-year trend information is available and the Analysis of Funding Progress is available for years 1987 through 1992 only.

Other Postemployment Benefit Information. The City System provides hospital and Surgical Insurance to retired members who have earned fifteen years credited service at the time of termination or terminate after age sixty with five years credited service and those who are receiving survivor benefits of eligible members are entitled to have their Hospital and Surgical Insurance premiums paid by the System. When benefits under the coverage would be reduced by reason of the retired member's eligibility for hospital and medical benefits under federal social security laws, the System will pay whatever additional fees are required for the federal medical coverage.

The health care coverage provided by the City System is considered an Other Postemployment Benefit (OPEB). It is advanced funded on an actuarially determined basis as a portion of the employer contribution requirement to the System. The Cincinnati Municipal Code provides authority for employer contributions. Health care coverage has been included in the calculation of the pension benefit obligation. Assets and liabilities are not separately determined.

Public Employees' Retirement System. MSD has 24 employees, as of December 31, 1992, who are participants of the Public Employees' Retirement System administered by the State of Ohio. This plan is not a significant portion of the overall operations of MSD. Additional disclosures concerning this plan, including other postemployment benefit information, can be found in the plan's annual financial statements.

9. Related Party Transactions

Cincinnati Water Works provides billing and collection services on customers' accounts for MSD. Fees for these services for 1992 and 1991 were \$3,157,000 and \$2,969,000, respectively. Fees are also paid to other municipalities and villages within Hamilton County for collection of sewerage bills.

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The City of Cincinnati provides "overhead" services to MSD, such as check disbursement, investment and legal services, etc. The fees for these services for 1992 and 1991 were \$1,837,000 and \$1,632,000, respectively. In addition, the City's Municipal Garage provides gasoline and repairs vehicles for MSD. Fees for these services were \$803,000 and \$852,000 for 1992 and 1991, respectively.

10. Commitments and Contingencies

The City of Cincinnati and the Board of County Commissioners of Hamilton County, Ohio, are parties to a Federal Consent Order which was entered in settlement of United States of America vs. The Board of County Commissioners of Hamilton County, Ohio, et al., Case No. C-1-85-0693. The City and County have continued in their efforts to negotiate an amendment to change certain construction schedules appearing in exhibits to that order. The City and County believe these changes are due to circumstances beyond the control of either, and are seeking approval of those schedule modifications from the United States Environmental Protection Agency. The consent order provides for stipulated penalties for failure to meet certain construction schedule deadlines but specifically contemplates that no such penalties will be collected from either defendant where the non-compliance was beyond the reasonable control of the defendants. In addition, according to MSD's Chief Legal Counsel, EPA has requested the payment of \$290,000 in stipulated penalties under the Consent Order for certain effluent limit excursions. The Consent order provides for stipulated penalties under certain conditions, and although the City and County have argued that no substantial penalties are appropriate, it appears that EPA does intend to extract some monetary payment for the excursions. Currently, the City is awaiting EPA's response to certain defenses presented during 1992.

The City of Cincinnati and the Board of County Commissioners executed a Consent Decree with the State of Ohio on March 16, 1992, in the context of Hamilton County Common Pleas, Case No. A-9202450. This case alleged that the City and Board failed to demonstrate adequate implementation of the approved pretreatment program. The Consent Decree required the City and Board to (A) immediately implement its enforcement response plan for all instances of industrial user non-compliance; (B) to issue effective and enforceable compliance orders and schedules for all industrial users in significant non-compliance during 1991; and (C) pay \$170,000 in satisfaction of all claims for civil penalties. The \$170,000 payment has

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been made. The City Manager appointed a pre-treatment enforcement team consisting of pretreatment specialists and attorneys with the express goal of improving the pretreatment enforcement program and satisfying all concerns of Ohio EPA. Management believes that MSD's Pretreatment Program is now operating in full conformity with state and federal law and no further enforcement action by the State against the City or Board is anticipated.

11. Subsequent Events

Bond Issue. On April 21, 1993, the District issued \$171,790,000, 1993 Series A Sewer System Improvement and Refunding Revenue Bonds dated April 15, 1993. The proceeds from the sale of such bonds, together with certain other available funds of the District are to be used to 1) reimburse the District for the cost of purchasing certain equipment, constructing certain improvements and making certain other capital expenditures for which the District has already expended the funds, 2) provide funds for new capital improvement projects, 3) advance refund the 1986 Bonds maturing December 1, 2006, 2010, and 2011 in the principal amount of \$71,960,000, and the 1991 Bonds maturing December 1, 2013 in the principal amount of \$31,915,000, 4) fund a portion of the Bond Reserve Requirement and 5) pay a portion of the costs of issuance of the 1993 bonds.

The 1993 bonds are special obligations of the District, payable solely from the net revenues of the District and are issued as parity with the 1985 bonds, the 1986 bonds, and the 1991 bonds, secured equally and ratably under the trust agreement. The 1993 bonds are dated April 15, 1993 and bear interest ranging from 2.45 percent to 5.60 percent and mature at varying amounts through the year 2016.

Rate Increase. The Hamilton County Board of Commissioners approved a sewer service charge rate increase effective April 14, 1993 of 20 percent.

TABLE 1

METROPOLITAN SEWER DISTRICT

ESTIMATED NUMBER OF ACCOUNTS AND WASTEWATER VOLUME

<u>Year</u>	<u>Number of Accounts</u>			<u>Total</u>	<u>Billable Wastewater Volume Ccf</u>	<u>Average Usage Per Account Ccf/Acct.</u>
	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>			
<u>Historical</u>						
1988	192,267	20,222	939	213,428	49,397,500	231.4
1989	193,252	20,503	996	214,751	47,794,000	222.6
1990	194,778	20,638	987	216,403	48,179,200	222.6
1991	195,814	20,787	995	217,596	48,365,700	222.3
1992	197,659	20,690	993	219,342	46,596,900	212.4
<u>Projected</u>						
1993	198,157	20,959	995	220,111	48,198,400	219.0
1994	199,406	21,051	995	221,452	48,380,400	218.5
1995	200,662	21,145	995	222,802	48,568,800	218.0
1996	201,925	21,237	995	224,157	48,752,000	217.5
1997	203,198	21,330	995	225,523	48,936,700	217.0

Ccf - Hundred cubic feet or 748 gallons

The Board of County Commissioners of Hamilton County, Ohio met at a regular session on the 24th day of February, 1993, with the following members present:

RESOLUTION

ADOPTING AN OPERATING BUDGET FOR 1993 FOR THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI

WHEREAS, the Director of the Metropolitan Sewer District of Greater Cincinnati and the Department of Sewers has submitted an operating budget for 1993, for the Metropolitan Sewer District of Greater Cincinnati, and

WHEREAS, this Board of County Commissioners of Hamilton County, Ohio, has reviewed said operating budget;

WHEREAS, estimated operating revenues for the fiscal year beginning January 1, 1993 and unappropriated surplus funds available for use by the Metropolitan Sewer District are sufficient to meet the requirements of the aforesaid operating budget.

NOW, THEREFORE, BE IT RESOLVED by the Board of Hamilton County Commissioners of Hamilton County, Ohio, that the aforesaid operating budget for fiscal year beginning January 1, 1993, be and hereby is adopted and appropriated as follows:

<u>DIVISION</u>	<u>CODE</u>	<u>PERSONNEL SERVICES 7100</u>	<u>OTHER EXPENSES 72/7400</u>	<u>1993 BUDGET</u>
Office of Director	701x410	\$ 254,445	\$ 303,125	\$ 557,570
Wastewater Engineering	701X420	4,411,711	2,693,593	7,105,304
Wastewater Administration	701X430	1,033,582	5,474,634	6,508,216
Wastewater Treatment	701X440	13,740,472	20,412,188	34,152,660
Wastewater Collection	701X450	4,865,081	7,721,322	12,586,403
Industrial Waste	701X460	1,808,850	1,564,840	3,373,690
				<u>64,243,843</u>
Motorized Equipment	701X981			1,069,262
Office, Technical & Operating Equipment	701X982			840,792
Debt Service	701X490			<u>22,578,334</u>
TOTAL OPERATING BUDGET				<u>\$88,772,231</u>

**DEBT SERVICE REQUIREMENTS ON THE 1993 BONDS
AND CURRENT OUTSTANDING OBLIGATIONS**

The following table sets forth, for each year the 1993 Bonds are outstanding, the amounts required in such year to be made available for the captioned purpose, and also the principal and interest on the current outstanding Obligations which will continue to be outstanding after the issuance of the 1993 Bonds.

Year	1993 Bonds				Total Revenue Bond Principal and Interest Requirements	Total Principal and Interest on Other Outstanding Obligations(3)	Total Principal and Interest Requirements
	Principal and Interest Requirements on the Prior Bonds (1)	Principal Maturities or Mandatory Redemption	Interest (2)	Subtotal			
1993	8,911,895.00	3,275,000.00	5,567,348.35	8,842,348.35	17,754,243.35	2,109,731.51	19,863,974.86
1994	8,908,690.00	740,000.00	8,788,105.00	9,528,105.00	18,436,795.00	1,896,676.58	20,333,471.58
1995	8,909,772.50	760,000.00	8,767,755.00	9,527,755.00	18,437,527.50	1,800,991.68	20,238,519.18
1996	8,912,162.50	785,000.00	8,741,155.00	9,526,155.00	18,438,317.50	1,696,987.18	20,135,304.68
1997	8,908,922.50	815,000.00	8,710,540.00	9,525,540.00	18,434,462.50	1,493,871.88	19,928,334.38
1998	8,912,217.50	845,000.00	8,676,310.00	9,521,310.00	18,433,527.50	1,440,614.71	19,874,142.21
1999	8,909,592.50	885,000.00	8,639,130.00	9,524,130.00	18,433,722.50	1,387,357.57	19,821,080.07
2000	8,909,057.50	930,000.00	8,598,420.00	9,528,420.00	18,437,477.50	1,334,100.45	19,771,577.95
2001	8,908,670.00	975,000.00	8,554,245.00	9,529,245.00	18,437,915.00	955,269.35	19,393,184.35
2002	7,490,760.00	2,440,000.00	8,506,470.00	10,946,470.00	18,437,230.00	386,091.87	18,823,321.87
2003	7,486,680.00	2,565,000.00	8,384,470.00	10,949,470.00	18,436,150.00	221,070.62	18,657,220.62
2004	7,488,920.00	2,695,000.00	8,253,655.00	10,948,655.00	18,437,575.00	141,156.89	18,578,731.89
2005	7,490,560.00	2,830,000.00	8,114,862.50	10,944,862.50	18,435,422.50	141,156.90	18,576,579.40
2006		10,465,000.00	7,967,702.50	18,432,702.50	18,432,702.50	141,156.90	18,573,859.40
2007		11,025,000.00	7,413,057.50	18,438,057.50	18,438,057.50	141,156.89	18,579,214.39
2008		11,615,000.00	6,823,220.00	18,438,220.00	18,438,220.00	141,156.89	18,579,376.89
2009		12,240,000.00	6,196,010.00	18,436,010.00	18,436,010.00	141,156.89	18,577,166.89
2010		12,905,000.00	5,528,930.00	18,433,930.00	18,433,930.00	141,156.90	18,575,086.90
2011		13,630,000.00	4,806,250.00	18,436,250.00	18,436,250.00	141,156.90	18,577,406.90
2012		14,330,000.00	4,107,250.00	18,437,250.00	18,437,250.00	141,156.90	18,578,406.90
2013		15,045,000.00	3,390,750.00	18,435,750.00	18,435,750.00	141,180.90	18,576,930.90
2014		15,830,000.00	2,612,500.00	18,442,500.00	18,442,500.00	25,797.39	18,468,297.39
2015		16,650,000.00	1,793,662.50	18,443,662.50	18,443,662.50		18,443,662.50
2016		17,515,000.00	919,537.50	18,434,537.50	18,434,537.50		18,434,537.50
Total	110,147,900.00	171,790,000.00	159,861,335.85	331,651,335.85	441,799,235.85	16,160,153.75	457,959,389.60

(1) Excluding the Refunded Bonds.

(2) Interest shown includes all interest from April 15, 1993, part of which will be paid as accrued interest by the purchasers of the 1993 Bonds.

(3) Includes all County obligations for General Obligation Bonds, General Obligation Notes and other Obligations for borrowed money with respect to the Sewer System having a maturity of more than 365 days from incurrence, excluding the Bonds. The County had no General Obligation Bonds or Notes outstanding with regard to MSD.

METROPOLITAN SEWER DISTRICT
1994 DEBT SERVICE
9/9/93

1993 BUDGET

1994 BUDGET

12/31/93

DESCRIPTION	1993 BUDGET			1994 BUDGET			INTEREST RATE PERCENT	PRINCIPAL BALANCE OUTSTANDING	PAY OUT DATE
	PRINCIPAL	INTEREST	TOTAL	PRINCIPAL	INTEREST	TOTAL			
REVENUE/GENERAL OBLIGATION BONDS									
APRIL 1, 1974 SERIES, CITY OF	\$10,000	\$4,025	\$14,025	\$5,000	\$8,840	\$13,840	5.75%	\$65,000	2000
OCTOBER 1, 1985 SERIES A	\$2,330,000	\$625,520	\$2,955,520	\$2,515,000	\$440,000	\$2,955,000	8.18%	\$5,240,000	2005
APRIL 1, 1986 SERIES A	\$775,000	\$5,957,470	\$6,732,470	\$830,000	\$596,000	\$1,426,000	7.11%	\$8,445,000	2001
JANUARY 15, 1991 SERIES A	\$985,000	\$5,689,950	\$6,674,950	\$1,030,000	\$3,500,000	\$4,530,000	6.26%	\$56,440,000	2005
APRIL 15, 1993				\$740,000	\$8,789,000	\$9,529,000	5.65%	\$168,515,000	2016
JANUARY 1		\$4,104,000	\$4,104,000		\$5,664,000	\$5,664,000			
TOTAL REVENUE/GENERAL OB	\$4,100,000	\$16,380,965	\$20,480,965	\$5,120,000	\$18,997,840	\$24,117,840		\$238,705,000	
TITLE II LOAN									
		\$0	\$0	\$5,150		\$5,150	0.00%	\$95,250	2012
WPCLF- L.M.									
					\$80,000	\$80,000	4.80%	T.B.D.	2014
O.W.D.A. NOTES									
1006 SYCAMORE PLANT	\$55,906	\$50,318	\$106,224	\$59,819	\$46,405	\$106,224	7.00%	\$662,936	2002
1671 W. BRANCH MILL CREEK	\$13,879	\$6,584	\$20,463	\$13,879	\$5,786	\$19,665	5.75%	\$104,089	2001
1695 PLEASANT RUN A AND B	\$38,265	\$1,578	\$39,843						
1775 MUDDY CREEK TREATM	\$154,984	\$99,287	\$254,271	\$154,984	\$69,600	\$224,584	6.25%	\$1,472,350	2003
1785 11&12 MILL CREEK SLUD	\$63,300	\$1,662	\$64,962			\$0			
1785 12A SKIMMING MODIFIC	\$47,846	\$29,874	\$77,720	\$47,846	\$26,644	\$74,490	6.75%	\$406,691	2002
1785 13 DRAINS & REGULATOR	\$1,311	\$36	\$1,347			\$0			
1785 15 INCINERATOR MODIFI	\$89,813	\$4,800	\$94,613	\$34,907	\$960	\$35,867	5.50%	\$34,907	1994
1785 17 BIOTREATMENT	\$142,637	\$36,105	\$178,742	\$142,637	\$26,477	\$169,114	6.75%	\$427,911	1996
1785 18 ELECTRIC SUBSTAIL	\$39,562	\$5,712	\$45,274	\$39,562	\$3,635	\$43,197	5.25%	\$79,123	1995
1785 20 THERMAL COND. INST	\$113,586	\$57,148	\$170,734	\$113,586	\$50,617	\$164,203	5.75%	\$908,686	2001
1785 21 SECONDARY TREATM	\$617,845	\$267,604	\$885,449	\$617,844	\$235,167	\$853,011	5.25%	\$4,633,833	2001
2185 INDIAN CREEK PLANT	\$18,717	\$17,138	\$35,855	\$20,119	\$15,736	\$35,855	7.49%	\$210,089	2002
2185 INDIAN CREEK SUPPLEM	\$395	\$323	\$718	\$422	\$296	\$718	6.88%	\$4,301	2002
1687 POLK RUN LOCAL-HIGH	\$59,091	\$30,472	\$89,563	\$60,272	\$29,290	\$89,562	2.00%	\$1,464,485	2013
1687 POLK RUN LOCAL-HIGH	\$11,790	\$39,801	\$51,591	\$13,008	\$38,532	\$51,540	7.11%	\$541,937	2013
TOTAL O.W.D.A. NOTES:	\$1,448,927	\$648,442	\$2,097,369	\$1,318,885	\$569,145	\$1,888,030		\$10,951,338	
TOTAL	\$5,548,927	\$17,029,407	\$22,578,334	\$6,444,035	\$19,646,985	\$26,091,020		\$249,751,588	

NOTES:

- Assumes issuance of \$60,000,000 of revenue bonds at 7.00% over 20 years.
- Title II loan is an assessment project.

ADDITIONAL SUPPORT INFORMATION

For Program Year 1994 (July 1, 1994 through June 30, 1995), jurisdictions shall provide the following support information to help determine which projects will be funded. Information on this form must be accurate, and where called for, based on sound engineering principles. Documentation to substantiate the individual items may be required by the Support Staff if information does not appear to be accurate.

- 1) What is the condition of the existing infrastructure to be replaced, repaired, or expanded? For bridges, submit a copy of the current State form BR-86.

Closed _____

Poor X

Fair _____

Good _____

Give a brief statement of the nature of the deficiency of the present facility such as: inadequate load capacity (bridge); surface type and width; number of lanes; structural condition; substandard design elements such as berm width, grades, curves, sight distances, drainage structures, or inadequate service capacity. If known, give the approximate age of the infrastructure to be replaced, repaired, or expanded.

Existing sanitary and combined sewers are deteriorated, loosing shape and in immediate danger of collapsing.

- 2) If State Capital Improvement Program funds are awarded, how soon (in weeks or months) after receiving the Project Agreement from OPWC (tentatively set for July 1, 1994) would the project be under contract? The Support Staff will be reviewing status reports of previous projects to help judge the accuracy of a particular jurisdiction's anticipated project schedule.

6

weeks/months (Circle one)

Are preliminary plans or engineering completed? Yes No

Are detailed construction plans completed? Yes No

Are all right-of-way and easements acquired? Yes No N/A

Are all utility coordinations completed? Yes No N/A

Give an estimate of time, in weeks or months, to complete any item above not yet completed. - 0 - weeks/months

- 3) How will the proposed project impact the general health, safety and welfare of the service area? (Typical examples may include the effects of the completed project on accident rates, emergency response time, fire protection, health hazards, user benefits, and commerce.) Please be specific and provide documentation if necessary to substantiate the data.

Rehabilitation of the sewers will prevent: sewage from backing up into basements; the waters of the state being polluted from sewers overflowing; building bans being imposed by O.E.P.A. because of inadequate sewer capacity.

- 4) What type of funds are to be utilized for the local share for this project?

Federal	_____	ODOT	_____	Local	<u> X </u>
MRF	_____	OWDA	_____	CD	_____
Other	_____				

Note: If MRF funds are being used for the local share, the MRF application must have been filed by August 1, 1993 for this project with the Hamilton County Engineer's Office.

The minimum amount of matching funds for grant projects (local share) must be at least 10% of the TOTAL CONSTRUCTION COST. What percentage of matching funds are being committed to this project?

 15 %

- 5) Has any formal action by a federal, state, or local government agency resulted in a complete or partial ban of the use or expansion of use for the involved infrastructure? (Typical examples include weight limits, truck restrictions, and moratoriums or limitations on issuance of building permits.) A copy of the legislation must be submitted with the application. THE BAN MUST HAVE AN ENGINEERING JUSTIFICATION TO BE VALID.

Complete Ban _____ Partial Ban _____ No Ban X

Will the ban be removed after the project is completed?

Yes _____ No _____

- 6) What is the total number of existing users that will benefit as a result of the proposed project?

100,000

For roads and bridges, multiply current documented Average Daily Traffic by 1.20. For public transit, submit documentation substantiating the count. Where the facility currently has any restrictions or is partially closed, use documented traffic counts prior to the restriction. For storm sewers, sanitary sewers, water lines, and other related facilities, multiply the number of households in the service area by 4.

- 7) Has the jurisdiction developed a Five Year Capital Improvement Plan as required in O.R.C., chapter 164? (This must be included with the application to be considered for funding.)

Yes X No _____ (Filed with prior application in June, 1993)

- 8) Give a brief statement concerning the regional significance of the infrastructure to be replaced, repaired, or expanded.

The existing sewers are deteriorated to the point of imminent collapse

causing backup of sewage into basements, collapse of roadways and

buildings, discharge of raw sewage to waters of the state, decrease in

carrying capacity of the system, and violation of state and federal

consent orders and N.P.D.E.S. permits.

**PAYMENT VOUCHERS
FOR TV INSPECTION
CLEANING AND
INVESTIGATION OF SEWERS
TO IDENTIFY SEWERS
TO BE REHABILITATED
USING
TRENCHLESS TECHNOLOGY**

CITY OF CINCINNATI
CLAIM VOUCHER - INVOICEDOCID 2V400 3083
CD Agt Voucher No.
Vendor Code 311166500
Check Category
For City Use Only

Vendor Invoice No. 326

City Order, Contract
Agreement No. 35X7181

Reference No. 93025

Terms

Partial ☒ Final ☐
For City Use Only

Metropolitan Sewer Dist. - Steve Minges

Name of Department, Office or Institution Receiving Goods or Services

1600 Gest Street, Cincinnati, OH 45204

Send Check Address
To SWS Environmental Service10880 Indeco Dr., Cincinnati, OH 45241
Claimant (Vendor's or Contractor's Name)

Claimant's Address

NOTICE: All invoices against the City for purchases made or for services performed, must be presented upon this form. Send this Claim Voucher/Invoice form to the address listed in the City's contract, purchase order or other authorizing document under "send invoices to".

For services rendered from April 26, 1993 to May 25, 1993 in conjunction with the flush cleaning and various other services related to the overall evaluation and maintenance of portions of the MSD system. The tasks accomplished are in accordance with the attached daily work sheets.

TOTAL
\$

TO BE RETURNED TO DEPARTMENT AFTER PAYMENT BY FINANCE

CLAIMANT MUST NOT WRITE BELOW THIS LINE

I hereby certify that the items specified and enumerated above have been received or performed, and that the charges shown are correct and constitute legitimate charges against the appropriation of fund accounts shown below.

As to Services or Quantities 7/1/93

Department / Division Head

City Manager or President of Board

PREVIOUS DOCID								OBJ/REV/	JOB/	RPT		
LN#	CD	AGY	PO/CONTRACT#	LN#	FUND	AGY	ORG	BS ACCT	PROJ	(ACT)	CAT	AMOUNT
**	**	***	*****	**	***	***	*****	*****	*****	(****)	****	

REMARKS

VOUCHER TIME RECORD

Date Material Received and Accepted

Voucher Received by Dept. Head

Date Sent to Finance Dept.

White - Dept. Payment Memo Copy Pink - Dept. Memo Copy

06/08/93

CITY OF CINCINNATI CLAIM VOUCHER - INVOICE

DOCID 197410 3083

CD Agcy Voucher No.

Vendor Code 3116 320

Check Category

For City Use Only

Vendor Invoice No. 326

Order, Contract Agreement No. 35X7181

Reference No. 93025

Terms

Partial Final

For City Use Only

Metropolitan Sewer Dist. - Steve Minges

Name of Department, Office or Institution Receiving Goods or Services

1600 Gest Street, Cincinnati, OH 45204

Send Check To SWS Environmental Service

10880 Indeco Dr., Cincinnati, OH 45241

Claimant's Address

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Page 16

Outside Supplies
Water and Permits - 2031.68 x 1.05
Rodent Bait - 55.73 x 1.05
52.82

\$ 2,133.26
~~52.52~~
55.46

AMOUNT DUE THIS INVOICE

TOTAL
\$ ~~81,000.18~~
80,944.72

SWS Environmental Service

President

TO BE RETURNED TO DEPARTMENT AFTER PAYMENT BY FINANCE

CLAIMANT MUST NOT WRITE BELOW THIS LINE

I hereby certify that the items specified and enumerated above have been received or performed, and that the charges shown are correct and constitute legitimate charges against the appropriation of fund accounts shown below.

As to Services or Quantities					Department / Division Head			City Manager or President of Board			AMOUNT
LN#	CD	AGY	PO/CONTRACT#	LN#	FUND	AGY	ORG	OBJ/REV/BS ACCT	JOB/PROJ	RPT (ACT) CAT	
***	***	***	*****	***	***	***	*****	*****	*****	(****)	****

REMARKS

VOUCHER TIME RECORD

Date Material Received and Accepted

Voucher Received by Dept. Head

Date Sent to Finance Dept.

White - Dept. Payment Memo Copy Pink - Dept. Memo Copy

PAD 8-5-93

Invoice Date 05/05/93

Vendor Invoice No. 303

Order, Contract Agreement No. 35X7181

Reference No. 93025

Terms

Partial Final For City Use Only

CITY OF CINCINNATI CLAIM VOUCHER - INVOICE

Metropolitan Sewer Dist. - Steve Minges

Name of Department, Office or Institution Receiving Goods or Services

1600 Gest Street, Cincinnati, OH 45204

Send Check To SWS Environmental Service

10880 Indeco Dr., Cincinnati, OH 45241

DOCID QV400 2260
CD Agcy Voucher No.
Vendor Code 311166500
Check Category
For City Use Only

Claimant's Address

NOTICE: All invoices against the City for purchases made or for services performed, must be presented upon this form. Send this Claim Voucher/Invoice form to the address listed in the City's contract, purchase order or other authorizing document under "send invoices to".

For services rendered from March 29, 1993 to April 25, 1993 in conjunction with the flush cleaning and various other services related to the overall evaluation and maintenance of portions of the MSD system. The tasks accomplished are in accordance with the attached daily work sheets.

Recap
Inv 30302 pgs 61905.04
300 (6 pgs) 9033.00
304 (9 pgs) 67005.55
Total 137943.59

TOTAL

TO BE RETURNED TO DEPARTMENT AFTER PAYMENT BY FINANCE
CLAIMANT MUST NOT WRITE BELOW THIS LINE

I hereby certify that the items specified and enumerated above have been received or performed, and that the charges shown are correct and constitute legitimate charges against the appropriation of fund accounts shown below.

As to Services or Quantities Department / Division Head City Manager or President of Board

PREVIOUS DOCID							OBJ/REV/	JOB/	RPT			
LN#	CD	AGY	PO/CONTRACT#	LN#	FUND	AGY	ORG	BS ACCT	PROJ	(ACT)	CAT	AMOUNT
**	**	***	*****	**	***	***	*****	*****	*****	(****)	****	
01	PO	400	35X7181	01	701	450	1000	7289				137943.59

REMARKS
paid 6-8-93
White - Dept. Payment Memo Copy Pink - Dept. Memo Copy

VOUCHER TIME RECORD
Date Material Received and Accepted
Voucher Received by Dept. Head
Date Sent to Finance Dept.

Invoice Date 05/05/93Vendor Invoice No. 303

City Order, Contract

Agreement No. 35X7181Reference No. 93025

Terms _____

Partial ☒ Final _____

For City Use Only

CITY OF CINCINNATI
CLAIM VOUCHER - INVOICEDOCID QV400 2260

CD Agcy Voucher No.

Vendor Code 311166500

Check Category

For City Use Only

Metropolitan Sewer Dist. - Steve Minges

Name of Department, Office or Institution Receiving Goods or Services

1600 Gest Street, Cincinnati, OH 45204

Send Check

Address

To SWS Environmental Service

10880 Indeco Dr., Cincinnati, OH 45241

Claimant (Vendor's or Contractor's Name)

Claimant's Address

NOTICE: All invoices against the City for purchases made or for services performed, must be presented upon this form. Send this Claim Voucher/Invoice form to the address listed in the City's contract, purchase order or other authorizing document under "send invoices to".

Page 12

Outside Supplies

Water and Permits - 1215.28 x 1.05

\$1,276.04

Rodent Bait - 35.11 x 1.05

36.87

Oldfield Equipment - 603.28 x 1.05

633.44

Queen City Repro & Design - 67.51 x 1.05

70.89

AMOUNT DUE THIS INVOICE

TOTAL

\$1,905.04

SWS Environmental Service

TO BE RETURNED TO DEPARTMENT AFTER PAYMENT BY FINANCE

CLAIMANT MUST NOT WRITE BELOW THIS LINE

I hereby certify that the items specified and enumerated above have been received or performed, and that the charges shown are correct and constitute legitimate charges against the appropriation of fund accounts shown below.

As to Services or Quantities

Department / Division Head

City Manager or President of Board

LN#	CD	AGY	PO/CONTRACT#	LN#	FUND	AGY	ORG	OBJ/REV/BS ACCT	JOB/PROJ	(ACT)	RPT CAT	AMOUNT
***	***	***	*****	***	***	***	*****	*****	*****	(****)	****	

REMARKS

VOUCHER TIME RECORD

Date Material Received and Accepted _____

Voucher Received by Dept. Head _____

Date Sent to Finance Dept. _____

White - Dept. Payment Memo Copy Pink - Dept. Memo Copy

FORM NO. 37-STORES REV. 6/91
Invoice Date 04/05/93

CITY OF CINCINNATI
CLAIM VOUCHER - INVOICE

DOCID	<u>QV400</u>	1752
CD	Agy	Voucher No.
Vendor Code	<u>55009</u>	
Check Category		
For City Use Only		

Vendor Invoice No. 30431
y Order, Contract
Agreement No. 25X7092

The Metropolitan Sewer District
of Greater Cincinnati

Reference No. _____

Name of Department, Office or Institution Receiving Goods or Services

1600 East Street, Cincinnati, Ohio 45204

Terms NET

Send Check Address

To BBS Corporation

Claimant (Vendor's or Contractor's Name)

Partial ☒ Final ☐

11238 Cornell Park Drive, Cincinnati, Ohio 45242

For City Use Only

Claimant's Address

NOTICE: All invoices against the City for purchases made or for services performed, must be presented upon this form. Send this Claim Voucher/Invoice form to the address listed in the City's contract, purchase order or other authorizing document under "send invoices to".

Engineering Services for Rainfall Derived
Infiltration/Inflow Investigations for
Sanitary Sewer Overflow Areas in Hamilton County
MSD CIP No. 91-79

Engineering Agreement No. 25X7092 dated July 15, 1992

ODS
3497
P.D.I./D.H.L.Y RD.
92079

TOTAL
\$ 45,022.95

BBS Corporation

Associate

TO BE RETURNED TO DEPARTMENT AFTER PAYMENT BY FINANCE

CLAIMANT MUST NOT WRITE BELOW THIS LINE

I hereby certify that the items specified and enumerated above have been received or performed, and that the charges shown are correct and constitute legitimate charges against the appropriation of fund accounts shown below.

As to Services or Quantities

Department / Division Head

City Manager or President of Board

PREVIOUS DOCID							OBJ/REV/	JOB/	RPT			
LN#	CD	AGY	PO/CONTRACT#	LN#	FUND	AGY	ORG	BS ACCT	PROJ	(ACT)	CAT	AMOUNT
**	**	***	*****	**	***	***	*****	*****	*****	(****)	*****	

REMARKS

VOUCHER TIME RECORD

paid 5-7-93

Date Material Received and Accepted

Voucher Received by Dept. Head

Date Sent to Finance Dept.

White - Dept. Payment Memo Copy Pink - Dept. Memo Copy

FORM NO. 37-STORES REV. 6/91
Invoice Date 06/03/93
Vendor Invoice No. 30359
/ Order, Contract
or Agreement No. 25X7092

CITY OF CINCINNATI
CLAIM VOUCHER - INVOICE

DOCID QV400 2753
CD Agcy Voucher No.
Vendor Code 55009
Check Category
For City Use Only

The Metropolitan Sewer District
of Greater Cincinnati

Reference No.
Terms NET
Partial Final
For City Use Only

Name of Department, Office or Institution Receiving Goods or Services

1600 Gest Street, Cincinnati, Ohio 45204

Send Check
To BBS Corporation

Address

Claimant (Vendor's or Contractor's Name)

11238 Cornell Park Drive, Cincinnati, Ohio 45242

Claimant's Address

NOTICE: All invoices against the City for purchases made or for services performed, must be presented upon this form. Send this Claim Voucher/Invoice form to the address listed in the City's contract, purchase order or other authorizing document under "send invoices to".

Engineering Services for Rainfall Derived
Infiltration/Inflow Investigations for
Sanitary Sewer Overflow Areas in Hamilton County
MSD CIP No. 92-79

Engineering Agreement No. 25X7092 dated July 15, 1992

Amount Due

TOTAL
\$ 70,599.07

BBS Corporation

Owner

TO BE RETURNED TO DEPARTMENT AFTER PAYMENT BY FINANCE

CLAIMANT MUST NOT WRITE BELOW THIS LINE

I hereby certify that the items specified and enumerated above have been received or performed, and that the charges shown are correct and constitute legitimate charges against the appropriation of fund accounts shown below.

As to Services or Quantities

Department / Division Head

City Manager or President of Board

PREVIOUS DOCID								OBJ/REV/	JOB/		RPT	
LN#	CD	AGY	PO/CONTRACT#	LN#	FUND	AGY	ORG	BS ACCT	PROJ	(ACT)	CAT	AMOUNT
**	**	***	*****	**	***	***	*****	*****	*****	(****)	****	

REMARKS

VOUCHER TIME RECORD

Date Material Received and Accepted
Voucher Received by Dept. Head
Date Sent to Finance Dept.

paid 7-15-93

FORM NO. 37-STORES REV. 6/91
Invoice Date 02/08/93
Vendor Invoice No. 30103

Order, Contract
or Agreement No. 25X7092

Reference No. _____

Terms NET

Partial ☐ Final ☒
For City Use Only

CITY OF CINCINNATI
CLAIM VOUCHER - INVOICE

The Metropolitan Sewer District
of Greater Cincinnati

Name of Department, Office or Institution Receiving Goods or Services

1600 Gest Street, Cincinnati, Ohio 43204

Send Check Address

To BBS Corporation

Claimant (Vendor's or Contractor's Name)

11238 Cornell Park Drive, Cincinnati, Ohio 45242

Claimant's Address

DOCID	<u>QY400</u>	1247
CD	Agcy	Voucher No.
Vendor Code	<u>56009</u>	
Check Category		
<small>For City Use Only</small>		

NOTICE: All invoices against the City for purchases made or for services performed, must be presented upon this form. Send this Claim Voucher/Invoice form to the address listed in the City's contract, purchase order or other authorizing document under "send invoices to".

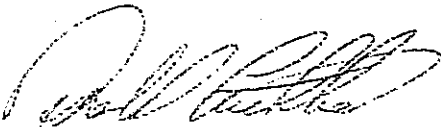
Engineering Services for Rainfall Derived
Infiltration/Inflow Investigations for
Sanitary Sewer Overflows Areas in Hamilton County
MSD CIP No. 92-79

Engineering Agreement No. 25X7092 dated July 15, 1992

ODS
3497
Daly Rd
92-079

AMOUNT DUE ----- TOTAL \$ 37,951.48

BBS Corporation



Owner

TO BE RETURNED TO DEPARTMENT AFTER PAYMENT BY FINANCE

CLAIMANT MUST NOT WRITE BELOW THIS LINE

I hereby certify that the items specified and enumerated above have been received or performed, and that the charges shown are correct and constitute legitimate charges against the appropriation of fund accounts shown below

3-9-93

As to, Services or Quantities

Department / Division Head

City Manager or President of Board

PREVIOUS DOCID								OBJ/REV/	JOB/	RPT	AMOUNT
LN#	CD	AGY	PO/CONTRACT#	LN#	FUND	AGY	ORG	BS ACCT	PROJ	(ACT) CAT	
**	**	**	*****	**	***	***	*****	*****	*****	(****) ****	

REMARKS
paid 4-1-93
White - Dept. Payment Memo Copy Pink - Dept. Memo Copy

VOUCHER TIME RECORD
Date Material Received and Accepted _____
Voucher Received by Dept. Head _____
Date Sent to Finance Dept. _____

**TRENCHLESS
TECHNOLOGY
LITERATURE**

Introduction

The NuPipe process creates a tight-fitting PVC pipe (NuPipe) within an old deteriorated pipeline by inserting a heated, folded PVC pipe which is then sequentially unfolded and expanded against the interior surface of the existing pipe. This new PVC pipe is a smooth, jointless, structural conduit that meets the performance requirements of ASTM D 3034. NuPipe installation is accomplished through existing manholes requiring no excavation.

The PVC pipe is manufactured in the folded shape and spooled in a continuous length for storage and shipping.

Figure 1

After the existing pipeline has been inspected with a video camera and cleaned, a heat-containment tube is pulled through the line and inflated. The folded PVC pipe is heated until it becomes flexible and is then pulled through the heat-containment tube and the host pipe.

Figure 2

A special rounding device is then inserted in the end of the folded PVC pipe and propelled by steam pressure to the termination point. As the rounding device progresses, it expands the PVC pipe tightly against the walls of the host pipe. Any liquids in the host pipe are pushed out ahead of the rounding device.

Figure 3

NuPipe molds to the shape of the host pipe and forms distinct dimples at service connections. Pressure is maintained in the rounded NuPipe until it cools to a rigid state. Because the NuPipe expands slightly into irregularities caused by breaks, joints, offsets, or missing sections in the host pipe, a mechanical lock is created between the NuPipe and the host pipe. To complete the installation, the ends of the NuPipe are cut off, and laterals are reopened by a remote controlled cutter from within the reconstructed pipeline.

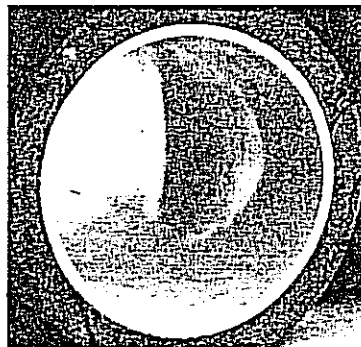


Figure 1

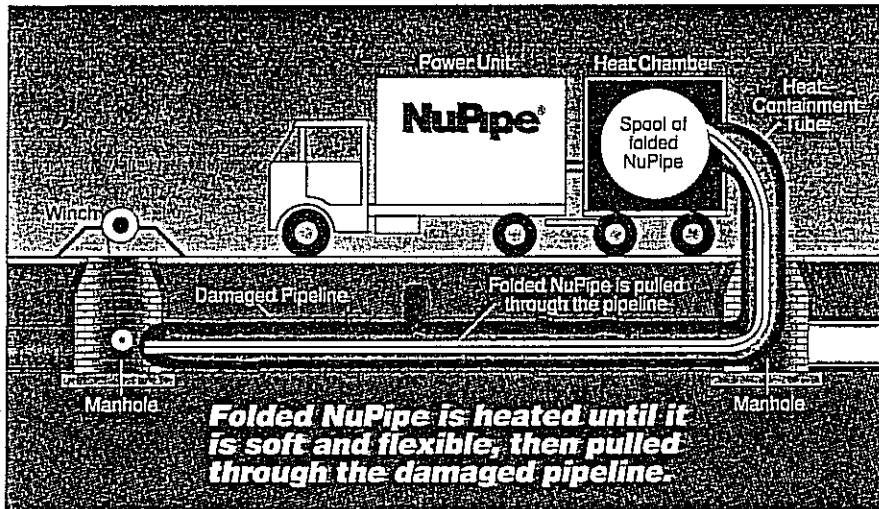


Figure 2

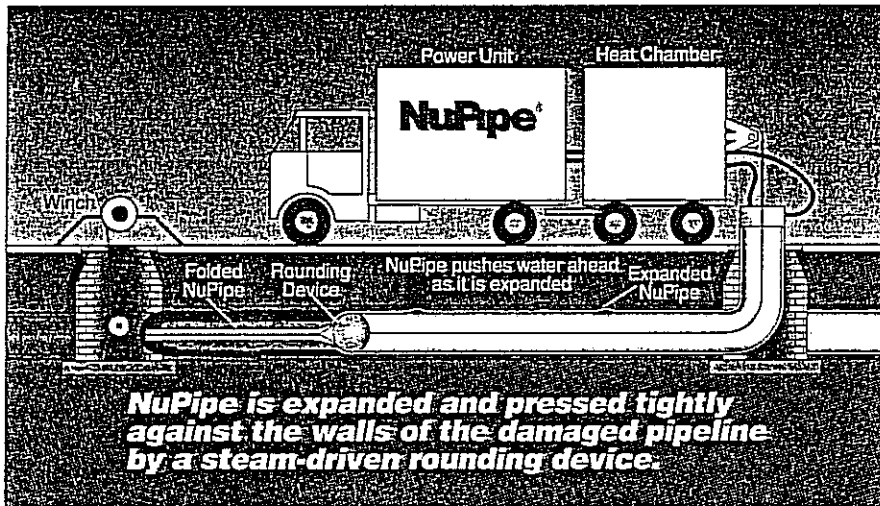
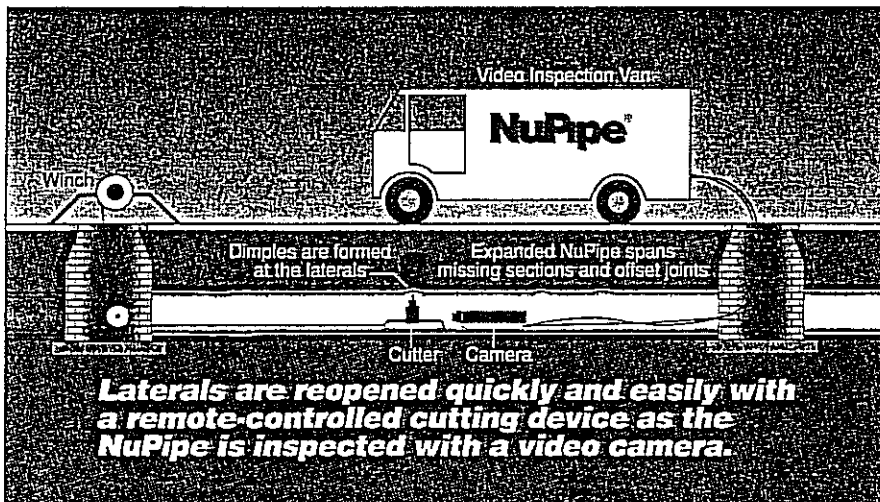


Figure 3



Introduction

Insituform is a unique process for reconstructing damaged pipeline systems in municipal and industrial applications. A new Cured-in-Place Pipe (CIPP), or Insitupipe, is formed inside of the existing conduit by using fluid pressure, typically water, to install a flexible tube saturated with a liquid thermosetting resin; the water is then heated to harden the resin. This process results in a continuous, tight-fitting, pipe-within-a-pipe. The Insituform process is cost-effective and fast and can be used in a variety of gravity and pressure applications such as sanitary sewers, storm sewers, process piping, drinking water systems, and ventilation systems.

The Insituform process was invented in England in 1971. The process was brought to the United States in 1977 and has been installed worldwide in over fifteen million feet of deteriorated pipeline with over eight million feet in the United States. Several installations have been inspected after many years of service and found to be in excellent condition. In 1991, samples were cut from the first Insituform installation in London, England. After 20 years of exposure to domestic and industrial sewage, the Insitupipe exceeded current industry standards for physical strength and exhibited no signs of deterioration.

Insituform has developed methods to reconstruct service laterals from both inside of the mainline sewer using robotic techniques and from above ground via cleanouts or small excavation pits. This technology enables Insituform to provide complete piping system rehabilitation techniques to best serve the needs of customers.

Insituform of North America, Inc., licensor of the Insituform process in the United States, operates through sub-licensees in all 50 states and the U.S. Virgin Islands. At corporate headquarters in Memphis, Tennessee, a large staff of highly trained engineers and scientists provide nationwide engineering support and extensive research and development activities. Insituform of North America, Inc. is a publicly held company on the NASDAQ exchange.

Although the Insituform process may appear to be simple, it is a state-of-the-art technology involving sound engineering practices, exacting materials requirements and experienced field installation personnel in order to manufacture quality pipe in an underground environment. A flexible, resin absorbent, fabric Insitutube, coated on the outside with an elastomeric material, is manufactured to fit the cross-section, length and required design thickness for the damaged pipe. The Insitutube is vacuum impregnated (wet-out) with a liquid thermosetting resin. This work is normally done at the Insituform installer's wet-out facility. However, for large diameter Insitutubes which are impractical to transport, wet-out can be accomplished at the job site with specially designed portable equipment.

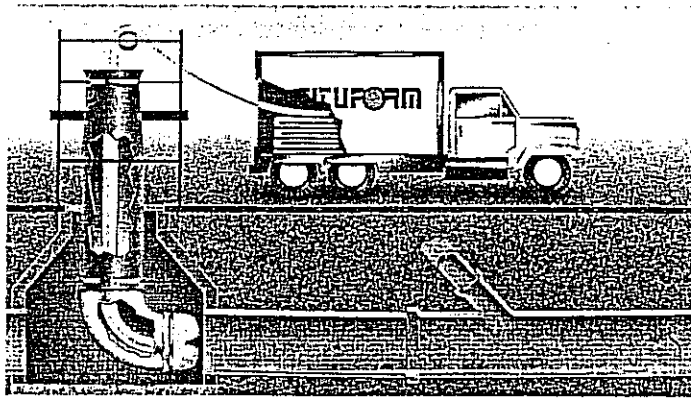
The impregnated Insitutube material is installed in the existing pipe through a manhole or other access point via a temporary inversion standpipe and inversion elbow (see Figure 1, Stage 1). A top inversion technique can also be used where the Insitutube itself forms the inversion standpipe. Water from nearby hydrants, or other convenient source, is used to fill the inversion standpipe. The force of the column of water pushes the wet-out Insitutube inside-out, termed inversion, and into the pipe being reconstructed (see Figure 1, Stage 2). As the Insitutube travels through the pipe, water is continually added to maintain a constant pressure. The inversion process results in the elastomeric coating of the Insitutube being the new interior surface of the pipe.

This inversion process results in no relative movement between the Insitutube and the deteriorated existing pipe wall minimizing trauma and potential damage to the flexible tube material. Another benefit of the inversion technique is that incoming and standing waters are forced ahead of the inverting Insitutube and out of the pipe reach; therefore, no water is trapped behind the Insitutube that could inhibit proper cure of the resin or alter the shape of the finished Insitupipe.

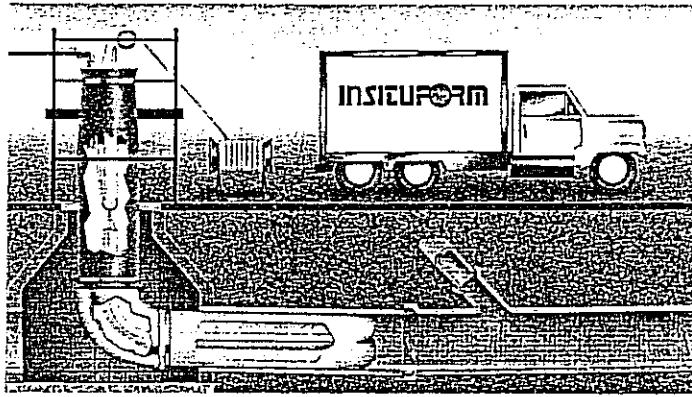
After the Insitutube reaches the termination point, the water is heated to cure the thermosetting resin (see Figure 1, Stage 3). Once the Insitutube has hardened and cooled down, the water pressure is released and the ends are trimmed. Service connections are reinstated internally with a remote control cutting device or by man-entry techniques (see Figure 1, Stage 4). The Insituform operation is then completed and the newly installed pipe is ready for immediate use.

Figure 1 INSITUFORM INSTALLATION

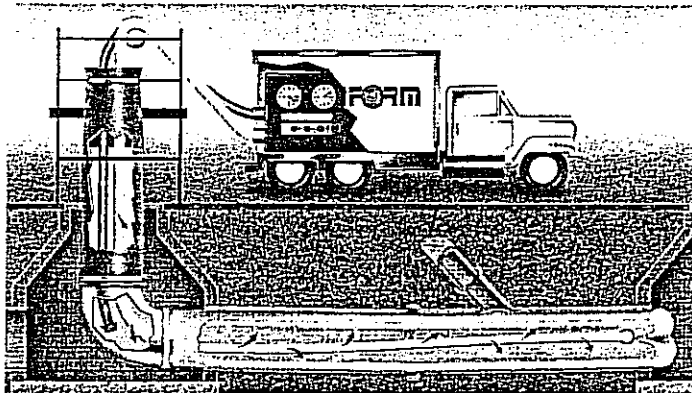
Stage 1



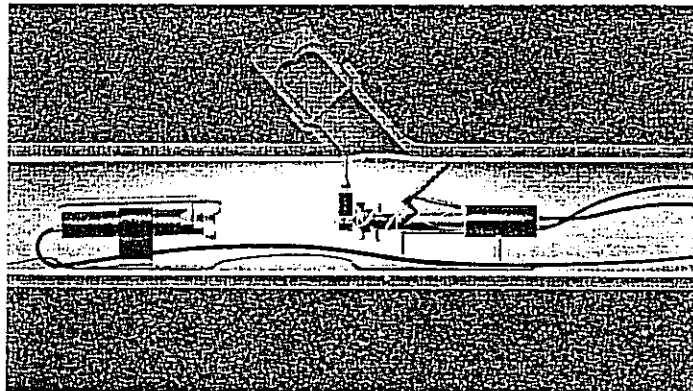
Stage 2

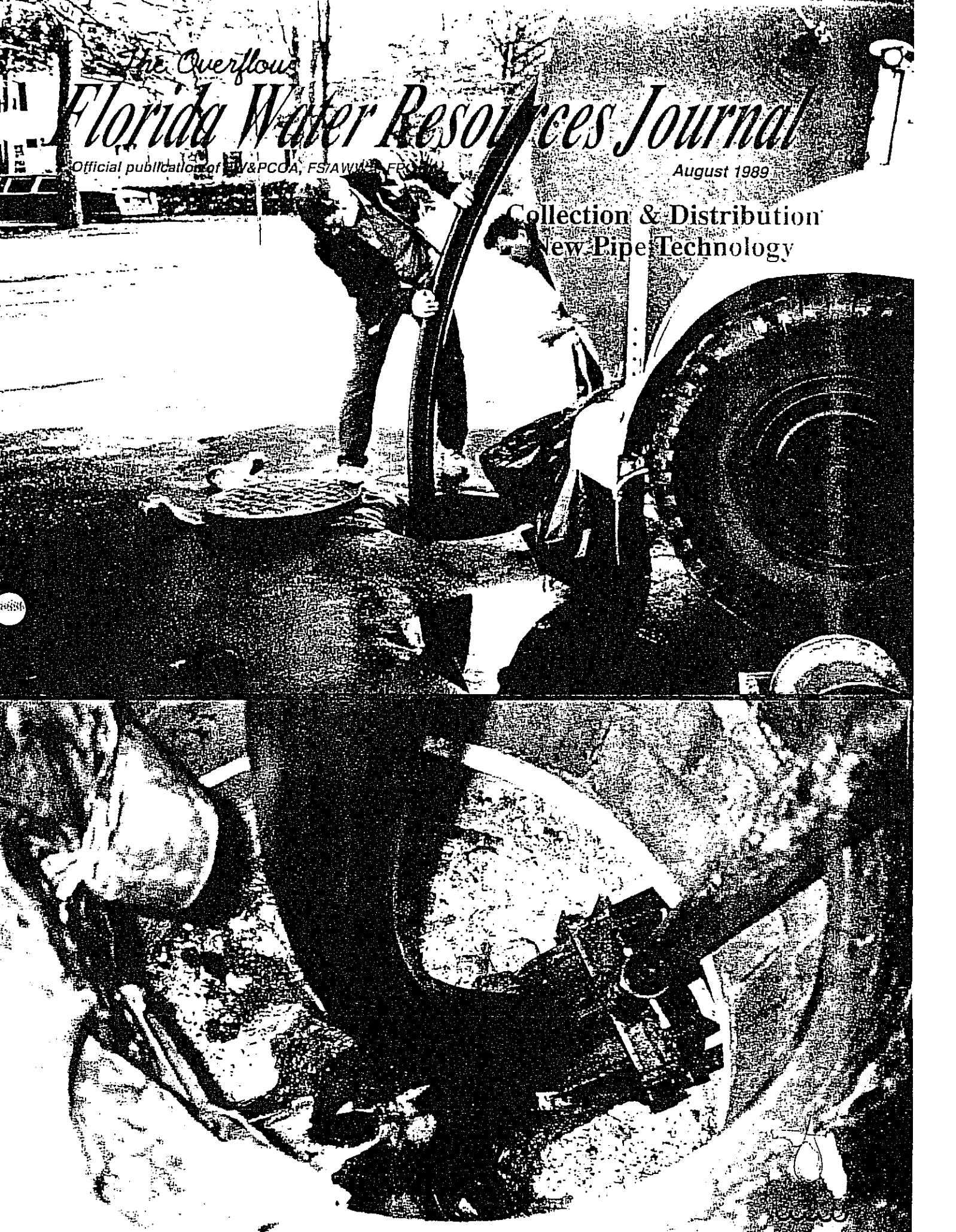


Stage 3



Stage 4





The Overflow

Florida Water Resources Journal

Official publication of FW&PCOA, FSWA, FWRA, FFWA

August 1989

Collection & Distribution
New Pipe Technology

No-Dig Pipe Restoration

U-Liner Applications



Corrosion and deterioration of sewer lines is a common problem in many Florida towns and cities. Municipalities often choose conventional methods of rehabilitating damaged pipes, such as excavating and slip lining. However, in an age of emerging new technologies with specific advantages, a growing number of municipalities are choosing newer applications.

One example occurred in the contrasting municipalities of Hastings and Orlando. Hastings, located between Palatka and St. Augustine, has a population of less than one thousand. Orlando is rapidly approaching one million. Recently, both encountered sewer line problems and chose the U-Liner process as the solution.

The U-Liner process, developed by Pipe Liners, Inc. of Metairie, Louisiana, involves a thermoplastic, polyethylene pipe. It is extruded with a diameter slightly larger than the inside diameter of the pipe to be fitted. Using a proprietary thermochemical deforming process, the liner, which is

manufactured in various wall thicknesses, is compressed into a U-shape, thus reducing its outside diameter by 25 to 35 percent. This temporary diameter reduction allows the liner to be pulled through the sewer pipe with minimal friction.

Once the liner has been set in place, a patented heat-pressure process restores the liner to its original round shape for a tight fit, leaving no annular space. Virtually all of the carrier pipe's original flow capacity is restored.

U-Liner can be installed in continuous lengths, and butt-fusion isn't required. Lateral connections are cut from within using a video-monitored milling apparatus. U-Liner installation equipment records measurements at all connection points, and provides a video/data record of each job.

A primary advantage, of course, is that excavation is not necessary. That was an important consideration at Hastings when TV monitoring and smoke tests showed massive infiltration of storm water into the sanitary sewer. The town's wastewater treatment plant was already working at capacity, and the infiltration during rainfall events caused serious problems at the plant.

A portion of the sewer line was on the major highway through the town. Excavation would have meant traffic tie-ups and loss of commerce to the downtown area.

Use of the U-Liner process allowed the problem to be corrected within two days—during peak traffic times—with no excavation.

In a similar manner, a section of sewer line in Orlando was found to be cracked and had concrete deposits left over from earlier overhauling. Griner's A-One Pipeline Service was contracted to apply the U-Liner process.



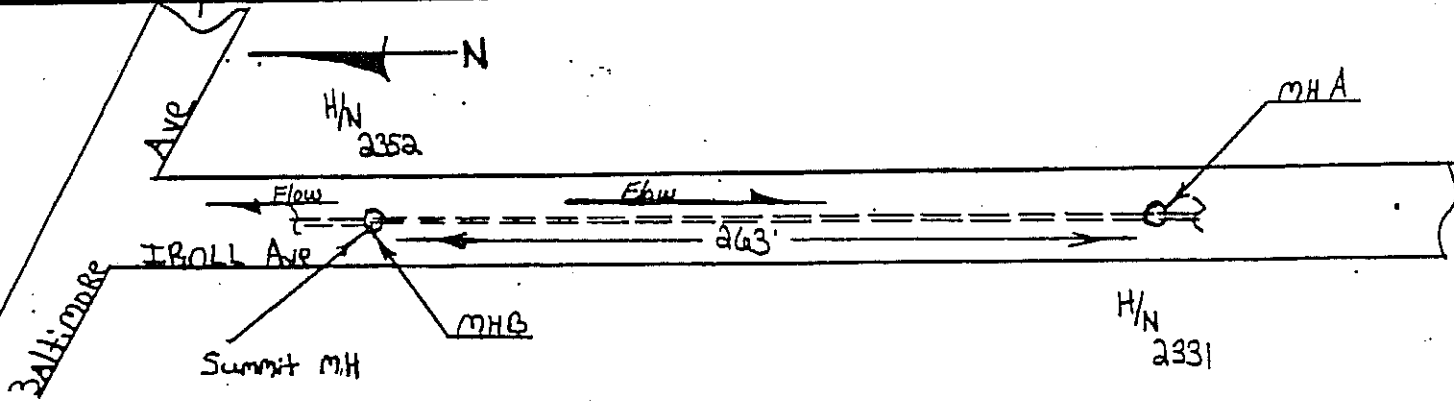
U Liner Installation

The city's Construction Field Representative, Cecil Walker, was impressed at how fast the repairs could be accomplished, the ease at which the materials were handled, and, from an environmental viewpoint, the fact that no chemicals are used.

Appreciation for information in this article to: Griner's A-One Pipeline Service, Orlando; Wayne Sistrunk of the engineering firm of M.V. Protheroe, Gainesville; and Cecil Walker, City of Orlando.

Date: 6-11-93	Investigator: Poff	Video Tape #: 833
City: Cin.	Sub-Area: Cumminsville	Video Footage: 00000-01438
Plaint / Address & Date: IROLL Ave 5-14-93		Weather: 70° P/cloudy
Upstream MH Address: 2352 IROLL Ave		Type of Pipe: VIT
Downstream MH Address: 2331 IROLL Ave		Pipe Size: 12"
Line Location: ST. LANE	Topo #: 284	Pipe Length: 3'
Surface Cover: Asphalt		TVd Distance: 262.4
PHYSICAL MEASUREMENTS:		MANHOLE DEPTHS:
Section Ground Distance: 263'		USMH: 15'8" Deadhead 78" M.L.
		DSMH: 15'9"
Condition Being Investigated:		

Footage	Remarks	Footage	Remarks
	MH A WS to MH B	164.0	TAP top Right
0.0	MHA	196.3	TAP Right
10.0 13.2	CRACKED PIPE	223.8	BREAK in TAP left 2"
10.2	TAP 12" C BREAK in	236.2	TAP Right
12.0	TAP left	254.9-260.0	CONC. PIPE
12.0	CRACKS AT joint	259.9	TAP left & TAP Right
21.3	" " " "	262.4	MH B
23.3	" " " "		
35.0-53.7	CRACKS SHAPE LOSS BAD SHAPE		
65.2	CRACKS AT jt.		
71.6-92.3	CRACK 12" C		
92.8	TAP Top Right		
94.6	TAP Left		
120.0	CRACKS AT jt.		
145.4	TAP left		



T-0122

STATE CAPITAL IMPROVEMENT PROGRAM

LOCAL TRANSPORTATION IMPROVEMENT PROGRAM

ROUND NO. 8

PROGRAM YEAR 1994 PROJECT SELECTION CRITERIA - JULY 1, 1994 TO JUNE 30, 1995

ADOPTED BY THE DISTRICT 2 INTEGRATING COMMITTEE

JULY 16, 1993

JURISDICTION/AGENCY: HAMILTON COUNTY - MSD

NAME OF PROJECT: TRENCHLESS TECHNOLOGY SEWER REHAB.

TOTAL POINTS FOR THIS PROJECT: 66

NO.
POINTS

- 10 1) If SCIP/LTIP Funds are granted, when would the construction contract be awarded? (The Support Staff will assign points based on engineering experience.)
- 10 Points - Will be under contract by December 31, 1994
 - 5 Points - Will be under contract by March 30, 1995
 - 0 Points - Will not be under contract by March 30, 1995
- ~~16~~
20 2) What is the condition of the infrastructure to be replaced or repaired? For bridges, base condition on latest general appraisal and condition rating.
- 20 Points - Poor Condition
 - 16 Points -
 - 12 Points - Fair to Poor Condition
 - 8 Points -
 - 4 Points - Fair Condition

NOTE: If the infrastructure is in "good" or better condition it will NOT be considered for SCIP/LTIP funding, unless it is a betterment project that will improve serviceability.

- 4 3) If the project is built, what will be its effect on the facility's serviceability?

10 Points - Significant effect (e.g., widen to and add lanes along entire project)
8 Points - Moderate to significant effect
6 Points - Moderate effect (e.g., widen exist. lanes)
4 Points - Moderate to little effect
2 Points - Little or no effect (e.g., street or bridge deck rehabilitation)

- 10 4) How important is the project to HEALTH, SAFETY, AND WELFARE of the public and the citizens of the District and/or service area?

10 Points - Highly significant importance, with substantial impact on all 3 factors
8 Points - Considerably significant importance, with substantial impact on 2 factors OR noticeable impact on all 3 factors
6 Points - Moderate importance, with substantial impact on 1 factor or noticeable impact on 2 factors
4 Points - Minimal importance, with noticeable impact on 1 factor
2 Points - No measurable impact

- 6 5) What is the overall economic health of the jurisdiction?

10 Points - Poor
8 Points -
6 Points - Fair
4 Points -
2 Points - Excellent

- 5 6) What matching funds are being committed to the project, expressed as a percentage of the TOTAL CONSTRUCTION COST? Loan and Credit Enhancement projects automatically receive 5 points, and no match is required. All grant funded projects require a minimum of 10% matching funds.

5 Points - 50% or more
4 Points - 40% to 49.99%
3 Points - 30% to 39.99%
2 Points - 20% to 29.99%
1 Point - 10% to 19.99%

- 0 7) Has any formal action by a federal, state, or local government agency resulted in a partial or complete ban of the usage or expansion of the usage for the involved infrastructure? POINTS MAY ONLY BE AWARDED IF THE END RESULT OF THE PROJECT WILL CAUSE THE BAN TO BE LIFTED.

5 Points - Complete or significant ban
3 Points - Partial or moderate ban
0 Points - No ban of any kind

- 5 8) What is the total number of existing daily users that will benefit as a result of the proposed project? Appropriate criteria include current traffic counts, households served, when converted to a measurement of persons. Public transit users are permitted to be counted for roads and bridges, but only when certifiable ridership figures are provided.

5 Points - 10,000 or more
4 Points - 7,500 to 9,999
3 Points - 5,000 to 7,499
2 Points - 2,500 to 4,999
1 Point - 2,499 and under

- 5 9) Does the infrastructure have REGIONAL impact? Consider origins and destinations of traffic, functional classification, size of service area, number of jurisdictions served, etc.

5 Points - Major impact (e.g., major multi-jurisdictional route, primary feed route to an Interstate, Federal - Aid Primary routes)
4 Points -
3 Points - Moderate impact (e.g., principal thoroughfares, Federal - Aid Urban routes)
2 Points -
1 Point - Minimal or no impact (e.g., cul-de-sacs, subdivision streets)

- 1 10) Has the jurisdiction enacted the optional \$5 license plate fee, an infrastructure levy, a user fee, or a dedicated tax for infrastructure?

2 Points - Two of the above
1 Point - One of the above
0 Points - None of the above

ADDENDUM TO THE RATING SYSTEM
DEFINITIONS

CRITERION 2 - CONDITION

Poor - Condition is dangerous, unsafe or unusable

Fair to Poor - Condition is inadequate or substandard

Fair - Condition is average, not good or poor

CRITERION 5 - ECONOMIC HEALTH

The following factors are used to determine economic health:

- 1) Median per capita income
- 2) Per capita assessed valuation of the total community real estate and personal property
- 3) Poverty indicators
- 4) Effective tax rates
- 5) Total corporate debt as a percentage of assessed valuation
- 6) Municipal revenues and expenditures per capita

CRITERION 9 - REGIONAL IMPACT

- | | |
|-------------------|--|
| Major impact - | Primary water or sewer main serving an entire system |
| Moderate impact - | Waterline or storm sewer serving only part of a system |
| Minimal impact - | Individual waterline or storm sewer not part of a system |